SITE-WIDE PROJECT WORK PLAN-PART I
PART 1: SITE-WIDE BACKGROUND REPORT
PRUDHOE BAY FACILITY, ALASKA

ADMINISTRATIVE ORDER ON CONSENT: RCRA-10-2007-0222

Date: January 28, 2008

Prepared for:

BP Exploration (Alaska), Inc.

Prepared by:

oasis ENVIRONMENTAL

825 W. 8th Ave.
Anchorage, AK 99501

Prepared by: _____
Thomas J. Beckman
Project Manager

Reviewed by: _____
Brad Authier, C.P.G. #7924
Program Manager

- Page Intentionally Left Blank -

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

ACRONYMS, ABBREVIATIONS, AND TERMINOLOGY

ACP..... Arctic Coastal Plain
ADEC ..... Alaska Department of Environmental Conservation
ADNR/DOG... Alaska Department of Natural Resources, Division of Oil and Gas
AHRS ..... Alaska Heritage Resource Survey
ANHP ..... Alaska Natural Heritage Program
ANWR ..... Arctic National Wildlife Refuge
AO..... Arctic oscillation
AOC ..... Areas of concern
AOGCC..... Alaska Oil and Gas Conservation Commission
ARCO..... Arco Alaska, Inc.
AWQS ..... Alaska Water Quality Standards
bgs ..... Below ground surface
BLM..... Bureau of Land Management
bmsl..... Below mean sea level
BOC ..... Base Operations Center
BPXA..... British Petroleum Exploration (Alaska), Inc.
BTEX..... Benzene, toluene, ethyl benzene and total xylenes
BCY..... Bank cubic yards
CAH..... Central arctic herd
CC2A..... Construction Camp 2A
CEC..... Cation exchange capacity
CERCLA..... Comprehensive Environmental Response, Compensation, and Liability Act
cfs..... Cubic feet per second
COC ..... Contaminants of concern
COTU ..... Crude Oil Topping Unit
cy..... Cubic yards
DAF ..... Dissolved Air Flotation
DEW..... Distant early warning
DRO ..... Diesel-range organics
DS-4 ..... Drill Site 4
DS-6 ..... Drill Site 6
DS-9 ..... Drill Site 9
EOA..... Eastern Operating Area
EOR ..... Enhanced Oil Recover
EPA ..... U.S. Environmental Protection Agency
ESA..... Endangered Species Act
F..... Fahrenheit
GAC ..... Granular activated carbon
G&I..... Grind and inject
GMU..... Game Management Unit

HWPF..... Hazardous Waste Processing Facility
HWSU ..... Hazardous Waste Storage Unit
IHLC ..... Inupiat History, Language, and Culture Commission
km^2 ..... Square kilometers
LCY ..... Loose cubic yards
MMPA ..... Marine Mammal Protection Act
MTS..... Material Transfer Station
m^3/s ..... Cubic meter per second
NRDC..... Natural Resource Defense Counsel
NRHP ..... National Register of Historic Places
NSB..... North Slope Borough
NWI ..... National Wetlands Inventory
OHA ..... Office of History and Archaeology
PBU..... Prudhoe Bay Unit
POL ..... Petroleum oil and lubricants
PBOC ..... Prudhoe Bay Operations Center
ppt ..... Parts per thousand
RCRA ..... Resource Conservation & Recovery Act
RFA ..... RCRA Facility Assessment
SAPC ..... Standard American Petroleum Company
SDL ..... Sand Dunes Landfill
SF..... Sagavanirktok formation
SWMU..... Solid Waste Management Unit
TCA 1,1,1-Trichloroethane
TLUI ..... Traditional Land Use Inventory
TOC..... Total organic carbon
UIC ..... Underground injection control
USACE..... U.S. Army Corps of Engineers
USCS ..... Unified Soil Classification System
USFWS ..... U.S. Fish and Wildlife Service
WOA..... Western Operating Area

TERMINOLOGY

In this document, the terms Prudhoe Bay oil field, Prudhoe Bay field, and Prudhoe Bay Unit (PBU) are synonymous and relate to descriptions of the oil field, oil field operations, and ownership. The term Prudhoe Bay facility is used extensively throughout the document and describes the area of the PBU that contains the SWMUs and AOCs being investigated under this Order. The term “Site” is defined in the Order and is used to describe the physical area of the Prudhoe Bay facility. Both the descriptions of the Prudhoe Bay facility and Site do not include six square miles of the Eastern Operating Area of the PBU.

1. INTRODUCTION

This Site-Wide Background Report for the Prudhoe Bay facility (or Site) is a component of Part I of the Site-Wide Project Work Plan, which is a requirement of the Resource Conservation and Recovery Act (RCRA), Section 3008(h) Administrative Order on Consent [EPA Docket No. RCRA-10-2007-0222] (Order) for corrective action, executed between the United States Environmental Protection Agency (US EPA) and BP Exploration Alaska, Inc. (BPXA). This report presents the facility's waste management history and environmental setting, as required by Attachment D to the Order. Figure 1 shows the general location and boundaries of the Prudhoe Bay facility or "Site" and its associated western and eastern operating areas.

The Prudhoe Bay field, the largest oil field in North America, was discovered on State of Alaska land in the Prudhoe Bay area of the North Slope of Alaska in 1968. The Site is located on a broad coastal plain along the Beaufort Sea. This is an area of low topographic relief, covered by countless small shallow lakes; much of the surface area is water-saturated during the summer months. A thin vegetative mat approximately 18-inches thick covers the surface, and permafrost is present to depths of 1,800 to 2,000 feet below the surface. The North Slope is classified as an arctic desert with little annual precipitation, 75 days of continuous daylight during the summer, and 56 days of no daylight in the winter.

In 1977, the Prudhoe Bay field's working interest owners organized to form the Prudhoe Bay Unit (PBU). The PBU is approximately 385 square miles in size and comprised of an Eastern Operating Area (EOA) and a Western Operating Area (WOA). The EOA is 192 square miles in size and the WOA is 193 square miles. Roughly six square miles of land within the EOA, that encompass the Deadhorse lease tracts, including the Deadhorse Airport, the North Slope Borough's Oxbow Landfill, and properties of oil industry support contractors, is excluded from the Site and are is not a part of the RCRA Corrective Action Program.

- Page Intentionally Left Blank -

2. PRUDHOE BAY UNIT AND FACILITY BACKGROUND

Background information regarding ownership and operation of the PBU, and waste management operations and the environmental setting of the Prudhoe Bay facility is included herein.

2.1. Ownership and Operation of the PBU

Development of the Prudhoe Bay field began in 1969. The first oil began flowing more than eight years later on June 20, 1977. To facilitate production of the oil and gas reserves, the lease tracks of 12 independent companies with interests in Prudhoe Bay field were combined to form the PBU with the execution of the Prudhoe Bay Unit Operating Agreement in 1977. This unitization allowed the development of the field and the production of oil in an efficient manner by avoiding the duplication of oil field facilities. The PBU was divided into the EOA, which was operated by Atlantic Richfield Company (ARCO) Alaska, Inc. and the WOA, which was operated by Sohio Alaska Petroleum Company. These 12 working interest owner companies included (ARCO Alaska, Inc., 1985):

- ARCO Alaska, Inc.
- Exxon Corporation
- Sohio Alaska Petroleum Company
- Amerada Hess Corporation
- Chevron USA, Inc.
- The Louisiana Land and Exploration Company
- Marathon Oil Company
- Mobil Oil Corporation
- Phillips Petroleum Company
- Shell Western Exploration and Production, Inc.
- Getty Oil Company / Texaco Producing Inc.
- BP Alaska Exploration, Inc.

Each member of the PBU received a share of production in proportion to its equivalent share of Unit ownership. Sohio Alaska Petroleum Company, the operator of the WOA, became Standard Alaska Production Company in the mid 1980s and later became BPXA.

BP Amoco and ARCO merged in 2000. As a result of the merger, BP Amoco sold the Alaska Prudhoe Bay assets of ARCO to Phillips Petroleum Company, which created Phillips Alaska, Inc. and later became ConocoPhillips Alaska, Inc. During the merger in 2000 and subsequent sale of ARCO Alaska, Inc., BPXA assumed operatorship of both the EOA and WOA. In September 2002, BPXA and the companies holding state oil and

gas leases in PBU reached agreements to realign their respective working interests. The working interest owners of the PBU currently include the following companies:

- ExxonMobil
- ConocoPhillips Alaska, Inc.
- BPXA
- ChevronTexaco

2.2. Prudhoe Bay Facility's Solid and Hazardous Waste Generation

Wastes generated at the Prudhoe Bay facility have historically come from a variety of sources including oil and gas drilling, development, production operations, construction projects, laboratory operations, facility equipment maintenance operations, Crude Oil Topping Unit operations, North Slope cleanup operations, and accidental releases of product. Solid and hazardous waste generation has varied significantly over time due to changing oil industry processes, infrastructure, and regulation.

Waste from the oil and gas development operations historically includes both large and small volumes of drilling muds and fluids, produced waters, brine solutions, crude oil, diesel and water mixtures, natural gas liquids, methanol, glycol and water mixtures, spent acids, well cleanup, stimulation and workover fluids, and other substances such as biocides, foam suppressants, emulsion breakers, corrosion inhibitors, scale inhibitors, and oxygen scavengers. Waste has historically been generated at most of the existing pads constructed for the PBU. Although some of these wastes might otherwise qualify as RCRA hazardous wastes, they are exempted from regulation as hazardous wastes when generated as drilling fluids, produced waters, and other wastes associated with the exploration, development, and production of oil and natural gas per Section 3001(b)(2)(A) of RCRA and 40 CFR 261.4(b)(5) of the EPA RCRA hazardous waste management regulations.

Wastes are also generated from support operations at the Prudhoe Bay facility. These wastes are not afforded the exemption described above. Select examples of waste streams and the operations that generate them are presented below.

- Laboratory operations that generate small quantities of spent solvents, acids, glycols, and crude oil as wastes
- Facility and equipment maintenance operations that generate used lube oil, hydraulic fluids, halogenated and non-halogenated solvents, paints, thinners, antifreeze, lead-acid batteries, and other wastes; some regulated as RCRA hazardous wastes
- Crude Oil Topping Units (COTU) that generate heat exchanger bundle cleaning sludge, separator and tank bottom sludge, and Dissolved Air Floatation (DAF) float
- The Tuboscope site, when operational, generated spent halogenated solvents used to clean (degrease) tubulars now generates granular activated carbon containing the F001 listed wastes as part of a remediation project.

- A variety of scrap metal and construction debris generated from construction and deconstruction activities
- Incinerator operations that generated ash requiring disposal
- Spill site cleanup materials and residues
- Commercial chemical products that can no longer be used.

Wastes managed at the Prudhoe Bay facility unit have predominantly included only wastes generated by facility operations. However, wastes have occasionally been accepted on a case-by-case basis from such activities as site clean-ups for other facilities on the North Slope, which have been accepted in accordance with agreements with EPA (Montgomery Watson, 2000).

2.2.1. RCRA Regulatory History

As indicated above, BPXA is the current operator of the Prudhoe Bay facility; however, to understand the RCRA regulatory history of the facility, it is important to discuss the activities conducted by both current and former operators. The history is presented separately for the EOA and WOA for the time period between 1977 and 2000 due to differences in operations and facilities. A summary of state and federal regulatory correspondence between ARCO Alaska, Inc., the Alaska Department of Environmental Conservation (ADEC), and the Environmental Protection Agency (EPA) regarding hazardous waste activities from 1977 to 2000 in the EOA is presented in Table 2-1.

TABLE 2-1. REGULATORY HISTORY, EASTERN OPERATING AREA

Date	Action
1980	ARCO Alaska, Inc. submitted notifications of hazardous waste activities to EPA identifying the entire EOA as a generator of hazardous waste and owner/operator of a treatment, storage, and disposal facility of hazardous waste in compliance with applicable RCRA regulations.
1980	ARCO Alaska, Inc. submitted a Part A permit application identifying ARCO as owner and operator of a hazardous waste treatment, storage, and disposal facility. Hazardous waste management methods listed included container and tank storage, treatment in tanks and deep well injection.
1984	ARCO Alaska, Inc. applied to EPA for Class 1 Underground Injection Control (UIC) permits for the disposal of hazardous wastes at its Pad 3 injection facility.
1984	ARCO Alaska, Inc. submitted an undated revised Part A permit application to EPA.
1985	ARCO Alaska, Inc. discontinued injection of hazardous wastes at the Pad 3 oily waste injection facility.
1986	ARCO Alaska Inc. achieved interim status for storage of hazardous waste in containers and tanks.
1987	ARCO Alaska, Inc. issued the final RCRA Facility Assessment (RFA) report
1988	ARCO submitted to ADEC a solid waste management application for closing 75 reserve pits in the EOA and Lisburne Development Area.
1988	ARCO Alaska, Inc. submitted permit applications to EPA for a hazardous waste container storage facility.
1990	ARCO Alaska, Inc. submitted to EPA and ADEC a revised waste analysis plan and a revised Part A permit application including a list of additional hazardous wastes stored at the facility.
1991	ARCO Alaska, Inc. submitted revised Part A permit application adding one new hazardous waste.
1991	EPA issued to ARCO Alaska, Inc. a complaint and compliance order for violations of RCRA including land disposal restrictions.
1991	ARCO Alaska, Inc. submitted a revised Part A permit application to EPA.

Date	Action
1991	ARCO Alaska, Inc. submitted revised plans to EPA including a closure and post-closure plan for the facility's hazardous waste storage unit, a waste analysis plan, and a closure investigation plan for the COTU and tube bundle sludge clean-out area.
1992	ARCO Alaska, Inc. submitted a report to EPA and ADEC regarding the reserve pit closure pilot program.
1992	ARCO Alaska, Inc. submitted a revised Part A permit application to EPA.
1992	ARCO Alaska, Inc. notified EPA of its intent to withdraw its Part B permit application for hazardous waste storage within the EOA.
1993	EPA issued an updated RFA report.
2000	BPXA submitted a Final C Pad Hazardous Waste Storage Unit (HWSU) Closure Plan to EPA.
2003	EPA provided conditional approval of the C Pad HWSU Closure Plan to BPXA.
2003	BPXA submitted a Final C Pad HWSU Closure Report to EPA.
2005	BPXA submitted a certification of closure and risk assessment for the C Pad HWSU to EPA.

A summary of state and federal regulatory correspondence between Sohio, Standard American Petroleum Company (SAPC), BPXA, ADEC, and the EPA regarding hazardous waste activities in the WOA between 1977 and 2000 is presented in Table 2-2. Similar activities for operations in the WOA also occurred as a result of the new or changing regulatory requirements specified above.

TABLE 2-2. REGULATORY HISTORY, WESTERN OPERATING AREA

Date	Action
1980	SOHIO also submitted a Notification of Hazardous Waste Activity to EPA identifying hazardous wastes generated by the facility.
1980	SOHIO submitted a RCRA Part A permit application identifying the entire WOA as a generator of hazardous waste and owner/operator of a treatment, storage, and disposal facility of hazardous waste.
1982	SOHIO achieved interim status from EPA for storage of hazardous waste in containers including 200,000 gallons of F002, D001, and D008 wastes.
1984	SOHIO submitted a revised RCRA Part A application to EPA for waste storage facilities at the WOA.
1985	SOHIO submitted a modified RCRA Part A application, including waste methanol (U154).
1986	SOHIO submitted a draft closure plan for its two storage facilities.
1986	SOHIO submitted an updated version of its RCRA Part A application, including a list of the hazardous wastes generated.
1987	SAPC received approval of interim status from EPA to continue hazardous waste operations.
1988	BPXA submitted permit applications to EPA for a hazardous waste container storage facility.
1988	BPXA submitted a RCRA Part B application to EPA.
1989	BPXA completed the first phase of the proposed conceptual site model for a new proposed hazardous waste facility in the WOA.
1990	BPXA submitted three revision of its RCRA Part A application including a list of hazardous wastes generated.
1991	BPXA submitted two revision of its RCRA Part A application including a list of hazardous wastes generated.
1992	BPXA submitted three revisions of its RCRA Part A application including lists of hazardous wastes generated.
1993	BPXA submitted a revision of its RCRA Part A application including lists of hazardous waste generated.
1994	BPXA submitted two revision of its RCRA Part A application including a list of hazardous wastes generated.
1996	BPXA submitted a revision of its RCRA Part A application including a list of hazardous wastes generated.
1998	BPXA submitted a RCRA Part B permit application for RCRA storage facility operations.

Date	Action
2000	BPXA submitted a Closure Plan for the C Pad HWSU to EPA.
2001	BPXA submitted a Final Closure Plan for the C Pad HWSU to EPA.
2002	BPXA submitted a Sampling and Analysis Plan for closure activities at C Pad HWSU to EPA.
2004	BPXA submitted a C Pad HWSU Closure Certificate to EPA.

Each of the operating areas was considered to be a single facility for RCRA regulatory purposes until 2000 when the EPA combined the facilities at the request of BPXA. For the combined Prudhoe Bay facility, BPXA is currently a RCRA large quantity generator (LQG).

2.3. Treatment, Storage, and Disposal Activities within PBU

Hazardous waste storage is the only permit-authorized hazardous waste activity that occurs at the Prudhoe Bay facility. Disposal of hazardous waste and treatment that would require a hazardous waste permit do not take place at the Prudhoe Bay facility. All hazardous waste treatment and disposal activities requiring a hazardous waste permit are performed at off-site authorized facilities in the continental United States.

2.3.1. Hazardous Waste Storage

From 1980 to 2000, BPXA operated a hazardous waste storage unit (HWSU) at C Pad in the WOA of the Prudhoe Bay facility. During the same time period, ARCO Alaska Inc. operated a HWSU at C Pad in the EOA of the PBU Facility. Wastes were transported from satellite accumulation areas within these facilities to their respective HWSUs for storage during waste characterization and pre-disposal coordination. Only containerized waste was accepted at these facilities. Typically, 55-gallon steel drums were used, although containers of other sizes and materials may have been accepted to match waste chemical compatibility and disposal needs. Drummed wastes were generally stored in overpack drums that provided secondary containment (Montgomery Watson, 2000).

A summary of the EOA waste streams, managed by ARCO Alaska, Inc. at the permitted HWSU at sometime over the 20 year period, is specified in Table 2-3.

TABLE 2-3. SUMMARY OF PAST HAZARDOUS WASTE CONSTITUENTS MANAGED BY ARCO ALASKA, INC., C PAD EOA HWSU - WASTE IDENTIFICATION CODES

Hazardous Waste Constituent	Hazard Class	RCRA Code
Arsenic	Toxic	D004
Barium	Toxic	D005
Cadmium	Toxic	D006
Chromium (Cr III)	Toxic	D007
Lead	Toxic	D008
Mercury	Toxic, Acute Toxicity	D009, U151
Selenium	Toxic	D010
Silver	Toxic	D011
Benzene	Toxic	D018, F005

Hazardous Waste Constituent	Hazard Class	RCRA Code
Carbon tetrachloride	Toxic	D019
Chlorobenzene	Toxic	D021
Chloroform	Toxic	D022
Cresols	Toxic	D026
1,4-Dichlorobenzene	Toxic	D027
1,2-Dichloroethane	Toxic	D028
2,4-Dinitrotoluene	Toxic	D030
2-Butanone (MEK)	Toxic	D035, F005, U359
Tetrachloroethylene	Toxic	D039, F001/F002, U210
Trichloroethylene	Toxic	D040, F001/F002, U228
1,1,1-Trichloroethane	Toxic	F001/F002, U226
Methylene Chloride	Toxic, Acute Toxicity	F001/F002, U080
Trichlorofluoromethane	Ignitable, Toxic	F001/F002, U121
Xylenes	Ignitable, Toxic	F003, U239
Acetone	Ignitable, Toxic	F003
Ethyl acetate	Ignitable, Toxic	F003, U112
Ethyl benzene	Ignitable, Toxic	F003
1,1-oxy-bis-ethane (ethyl ether)	Ignitable, Toxic	F003, U117
4-Mthyl-2-pentanone	Ignitable, Toxic	F003, U161
N-butyl alcohol	Ignitable, Toxic	F003
Cyclohexanone	Ignitable, Toxic	F003
Methanol	Ignitable, Toxic	F003, U154
Toluene	Ignitable, Toxic	F005, U220
Carbon disulfide	Ignitable, Toxic	F005
Isobutanol	Ignitable, Toxic	F005
Pyridine	Ignitable, Toxic	F005
Ethylene glycol monoethyl ether	Ignitable, Toxic	F005, U359
2-Nitropropane	Ignitable, Toxic	F005
Epinephrine	Reactive	P042
Sodium azide	Acute Toxicity	P105
1,2-ethane-dyl-bis-carvamodithioic acid/salts/esters	Reactive	U114
Formaldehyde	Acute Toxicity	U122
Phenol	Acute Toxicity	U188
Tetrahydrofuran	Ignitable, Toxic	U213

Source: URS Corporation, 2000

Similar hazardous waste constituents were managed by BPXA at the permitted hazardous waste storage units at WOA C Pad at some time during the same 20 year period, including the waste streams specified in Table 2-4.

TABLE 2-4. SUMMARY OF PAST HAZARDOUS WASTE CONSTITUENTS MANAGED BY BPXA, C PAD WOA HWSU - WASTE IDENTIFICATION CODES

Hazardous Waste Constituents	Hazard Class	RCRA Code
Fuel/Water, Flammable Liquid Benzene	Ignitable, Toxic	D001, D018
Stoddard Flammable Liquids, Benzene	Ignitable, Toxic	D001, D018
Paints/Thinners, Flammable Liquids, Benzene, MEK	Ignitable, Toxic	D001, D008, D009, D018, D035, D039, D040, F002, F003, F005, U117, U226
Wet Batteries	Corrosive, Toxic	D002, D005
Tank Bottoms	Ignitable, Toxic	D001, D018
Lights, HWS, Lead	Toxic	D008
Caustic Liquids w/metals	Corrosive, Toxic	D002, D004, D005, D006, D007, D008, D009, D010, D011
Potash Chrome	Toxic	D007
Lapping Solvent	Toxic	D008
NiCad Dry Batteries, KOH	Corrosive, Toxic	D002, D006
Citrosolv w/mercury	Ignitable, Toxic	D001, D009
Solvent/fuel, methanol, crude rags, MEK, toluene	Ignitable, Toxic	D001, D018, F003, F005
Lithium Batteries	Ignitable, Reactive, Toxic	D001, D003, D018
F-listed solvent	Ignitable, Toxic	D001, F002, F003, F005
Wash rack w/lead	Toxic	D008
Contaminated waste oil, liquid lead benzene	Toxic	D004, D007, D008, D009, D018
Waste Hg, Manu Articles	Toxic	D009
Carbon tetrachloride	Toxic	D019
Chlorobenzene	Toxic	D021
Chloroform	Toxic	D022
Cresol	Toxic	D026
1,4-Dichlorobenzene	Toxic	D027
1,2-Dichloroethane	Toxic	D028
2,4-Dinitrotoluene	Toxic	D030
Spent halogenated solvents	Toxic	F001
1,2-Benzenediol,4-[1-hydrozy-2-methylamino)ethyl]	Reactive	P042
Sodium azide	Acute Toxicity	P105
Chloroform (trichloromethane)	Acute Toxicity	U044
Methylene chloride (dichloromethane)	Acute Toxicity	U080
Acetic acid ethyl ester	Ignitable	U122
Trichloromonofluoromethane (trichlorofluoromethane)	Acute Toxicity	U121
Formaldehyde	Acute Toxicity	U122
Lead acetate	Acute Toxicity	U144
Mercury	Acute Toxicity	U151
Methyl alcohol	Ignitable	U154
Methyl isobutyly ketone	Ignitable	U161
Phenol	Acute Toxicity	U188
Tetrachloroethylene	Acute Toxicity	U210
Tetrahydrofuran	Ignitable	U213

Hazardous Waste Constituents	Hazard Class	RCRA Code
Toluene (methylbenzene)	Acute Toxicity	U220
Trichloroethylene (trichloroethene)	Acute Toxicity	U228
Xylene, Demethylbenzene	Ignitable, Toxic	U239

Source: Woodward-Clyde, 1998

Waste stream information for the hazardous wastes temporarily stored at either the EOA or WOA HWSU facilities was taken from a variety of sources including facility waste manifests, land disposal restriction notifications, biennial reports, weekly inspection logs, material receipt logs, inactive waste disposal profiles, and other records contained within facility operating records from the beginning of HWSU operations in the 1980s to closure in the early 2000s to determine which hazardous wastes have historically been handled within the PBU unit.

Historical hazardous waste information obtained from Part A permit applications for the EOA C Pad HWSU is summarized in Table 2-5. The data presented in this table represent anticipated waste streams and associated volumes that were requested by the operator to be authorized for storage at the HWSU. Multiple Part A applications chronicle the historical changes to the waste streams anticipated by ARCO Alaska, Inc. to be managed at the HWSU.

TABLE 2-5. HISTORICAL PERMITTED HAZARDOUS WASTE GENERATION/STORAGE, EOA C PAD PART A PERMIT APPLICATION SUMMARY

Waste Code	Waste Description	Anticipated Amount (Pounds)	Year Waste Stream Added
D001	Ignitable	500,000	
D002	Corrosive	21,000 to 50,000	
D004	Arsenic	21,000	
D005	Barium	21,000	
D006	Cadmium	21,000	
D007	Chromium	21,000	
D008	Lead	21,000	
D009	Mercury	21,000	
D010	Selenium	21,000	1980 to 1986
D011	Silver	21,000	
F001	Halogenated – degreaser	21,000	
F002	Halogenated – degreaser	21,000	
F003	Non-halogenated – degreaser	21,000	
F004	Non-halogenated	21,000	
F005	Non-halogenated	21,000	
K050	Heat Exchanger Sludge	21,000 to 60,000	
U154	Methanol	21,000	
U228	Trichloroethylene	21,000	
K049	Slop oil emulsion solids	440 to 2,500	

Waste Code	Waste Description	Anticipated Amount (Pounds)	Year Waste Stream Added
K051	API separator sludge – petrol refining	440 to 2,500	1990
K052	PI Tank bottoms – refining	440 to 2,500	
U002	Acetone	440 to 2,500	
U007	Acrylamide	440 to 2,500	
U019	Benzene	440 to 2,500	
U211	Carbon tetrachloride	440 to 2,500	
U122	Formaldehyde	440 to 2,500	
U134	Hydrofluoric acid	440 to 2,500	
U135	Hydrogen sulfide	440 to 2,500	
U151	Mercury	440 to 2,500	1990, cont.
U140	Isobutanol	440 to 2,500	
U159	Methyl ethyl ketone	440 to 2,500	
U080	Methylene chloride	440 to 2,500	
U161	Methyl isobutyl ketone	440 to 2,500	
U165	Naphthalene	440 to 2,500	
U182	Paraldehyde	440 to 2,500	
U220	Toluene	440 to 2,500	
U227	1,1,2-Trichloroethane	440 to 2,500	
U226	Trichloroethane	440 to 2,500	
U239	Xylene	440 to 2,500	
K048	DAF – Petroleum refining	440 to 2,500	
D010	Selenium	21,000	
D003	Reactive	21,000	
P105	Sodium Azide	100	
D020	Chlordane	2,500	
D018	Benzene	21,000	
D019	Carbon tetracholoride	21,000	
D021	Chlorobenzene	21,000	
D022	Chloroform	21,000	
D023	o-Cresol	21,000	
D024	m-Cresol	21,000	
D025	p-Cresol	21,000	
D026	Cresol	21,000	1991
D027	1,4-Dichlorobenzene	21,000	
D028	1,2-Dichlorobenzene	21,000	
D029	1,1-Dichloroethylene	21,000	
D030	2,4-Dinitrotoluene	21,000	
D031	Heptachlor (& its epoxide)	21,000	
D032	Hexachlorobenzene	21,000	
D033	Hexachloro-1,3-butadiene	21,000	
D034	Hexachloroethane	21,000	
D035	Methyl ethyl ketone	21,000	

Waste Code	Waste Description	Anticipated Amount (Pounds)	Year Waste Stream Added
D036	Nitrobenzene	21,000	1991, cont.
D037	Pentachlorophenol	21,000	
D038	Pyridine	21,000	
D039	Tetrachloroethylene	21,000	
D040	Trichloroethylene	21,000	
D041	2,4,5-Trichlorophenol	21,000	
D042	2,4,6-Trichlororphenol	21,000	
D043	Vinyl Chloride	21,000	
U120	Fluoranthene	500	1992
U044	Chloroform	500	
P030	Cyanides n.o.s.	21,000 to 10	
P042	Epinephrine	1	
P001	Warfarin	1	
P081	Nitroglycerine	1	

Significant changes in the waste streams managed by the EOA C Pad HWSU facility occurred in 1990, 1991, and 1992. Three K-listed wastes for COTU refining operations were added in 1990 along with a series of U-listed (discarded commercial chemical products, container residues, or spill residues) wastes. Additionally in 1990, the anticipated volume of D002 corrosive wastes increased from 21,000 pounds to 50,000 pounds. In 1991, significant changes were made with the inclusion of characteristic waste streams and an anticipated increase in volume of U- and K-listed waste streams from 440 to 2,500 pounds. Additional U- and P-listed commercial chemical products were added in 1992, including very limited quantities of select acute hazardous waste. The anticipated amount of cyanide (P030) wastes was reduced from 21,000 pounds to 10 pounds at the same time in 1992.

A summary of changes to the anticipated annual hazardous waste streams generated in the WOA and stored at the WOA C Pad, as represented in Part A application filings, are summarized in Table 2-6 below.

TABLE 2-6. HISTORICAL PERMITTED HAZARDOUS WASTE GENERATION/STORAGE, WOA C PAD PART A PERMIT APPLICATION SUMMARY

Waste Code	Waste Description	Anticipated Annual Amount (Pounds)	Year Waste Stream Added
D001	Ignitable	140,000	1980 to 1989
D002	Corrosive	15,000	
D003	Reactive	1,000	
D007	Chromium	20,000	
D008	Lead	53,000	
D011	Silver	50,000	
F001	Spent Halogenated Solvent	7,000	
F002	Spend Halogenated Solvent	11,000	
U044	Chloroform	500	

Waste Code	Waste Description	Anticipated Annual Amount (Pounds)	Year Waste Stream Added
U080	Methylene Chloride	500	1980 to 1989, cont.
U122	Formaldehyde	500	
U151	Mercury	500	
U154	Methanol	4,000	
U226	1,1,1-Trichloroethane	5,000	
U239	Xylene	1,000	
U359	Monoethyl Ether	1,000	
D009	Mercury	8,000	
F003	Spent non-Halogenated Solvents	6,000	
F005	Spent non-Halogenated Solvents	6,000	
P105	Sodium Azide	500	
U114	1,2-ethane-diyl-bis-carvamodithioic acid/salts/esters	1	1990
D010	Selenium	500	
D004	Arsenic	500	
D018	Benzene	20,000	
D039	Tetrachloroethylene	1,000	
D040	Trichloroethylene	1,000	
D030	2,4-Dinitrotoluene	1,000	1991
D035	Methyl Ethyl Ketone	500	
U161	4-Methyl-2-pentanone	500	
D019	Carbon Tetrachloride	1,000	
D028	1,2-Dichloroethane	1,000	
D006	Cadmium	1,000	
U220	Toluene	2,000	
U228	Trichloroethylene	1,000	
P042	Epinephrine	1 to 10	1992
D005	Barium	500	
D021	Chlorobenzene	500	
D022	Chloroform	500	
D027	1,4-Dichloroethane	100	
U210	Tetrachloroethylene	100	
U112	Ethyl Acetate	2,000	1993
D026	Cresol	100	
U188	Phenol	10	1994
U121	Trichlorofluromethane	100	
U213	Tetrahydrofuran	100	1996
U117	1,1-oxy-bis-ethane (ethyl ether)	100	

Changes in the anticipated waste streams managed by the WOA HWSU facility occurred annually from 1990 to 1996. In 1990, a series of characteristic waste streams, including both metals and chlorinated solvents, were added along with 1,2-ethane-diyl-bis-carvamodithioic(acid/salts/esters), a U-listed discarded commercial chemical product. In

1991 and 1992, additional listed and characteristic waste streams including metals and select halogenated and non-halogenated organics were added. Epinephrine, a P-listed acute hazardous waste was also added in 1992. Between 1993 and 1996, a total of six additional waste streams were added (two each year), which included limited quantities of U-listed waste streams and one characteristic waste stream (cresol). Only one change was made to the anticipated waste stream volumes at the WOA HWSU with the submittal of revised Part A permit applications to the EPA involving P042 (Epinephrine) wastes. The anticipated amount of P042 wastes generated was changed in 1992 from 1 to 10 pounds per year.

Following the closure of the WOA and EOA C Pad HWSUs in 2000, BPXA continued hazardous waste storage operations at a new Hazardous Waste Processing Facility (HWPF) at the Petroleum Oil and Lubricants (POL) Building Hazardous Waste Processing Facility on the Base Operations Center (BOC) pad in the Prudhoe Bay facility. BPXA received approval for an authorized change during interim status to transfer its S01 90-day container storage process/activity during the winter of 2000. BPXA submitted Part A permit applications for the PBU POL Building HWPF in 2000 and a subsequent revision in 2004. As a result of actual or anticipated operations, the waste codes listed in the 2000 Part A permit application differed from wastes previously identified in the most recent Part A permit applications for the former EOA and WOA C Pad HWSU referenced above. The waste codes that were eliminated and associated amounts are described in Table 2-7.

TABLE 2-7. SUMMARY OF WASTE STREAM CHANGES (ELIMINATIONS) FOLLOWING COMBINATION OF EOA & WOA HWSUS

Waste Code	Waste Description	Anticipated Amount (Pounds)
Waste Streams Eliminated in 2000		
D020	Chlordane	2,500
D023	o-Cresol	21,000
D024	m-Cresol	21,000
D025	p-Cresol	21,000
D031	Heptachlor (& its epoxide)	21,000
D032	Hexachlorobenzene	21,000
D033	Hexachloro-1,3-butadiene	21,000
D034	Hexachloroethane	21,000
D036	Nitrobenzene	21,000
D037	Pentachlorophenol	21,000
D041	2,4,5-Trichlorophenol	21,000
D042	2,4,6-Trichlorophenol	21,000
K048	DAF – Petroleum refining	2,500
K049	Slop oil emission solids	2,500
K050	Heat Exchanger Sludge	2,500
U007	Acrylamide	2,500
U019	Benzene	2,500

Waste Code	Waste Description	Anticipated Amount (Pounds)
U117	1,1-oxy-bis-ethane (ethyl ether)	100
U134	Hydrofluoric acid	2,500
U135	Hydrogen sulfide	2,500
U140	Isobutanol	2,500
U182	Paraldehyde	2,500
U227	1,1,2-Trichloroethane	2,500
New Waste Streams Added in 2000		
U003	Acetonitrile	10
U031	Butanol	10
U037	Chlorobenzene	10
U056	Hexahydrobenzene	10
U075	Dichlorodifluoromethane	30
U124	Furan	10
U136	Dimethyl-arsenic acid	10
U208	1,1,1,2-Tetrachloroethane	10
U210	Tetrachoroethylene	10
P098	Potassium cyanide	10
P106	Sodium cyanide	10

The annual amount of anticipated hazardous wastes generation dropped significantly across all waste streams in 2000. A summary of these differences is provided in Table 2-8.

TABLE 2-8. SUMMARY OF CHANGES IN PBU HAZARDOUS WASTE GENERATION IN 2000

Waste Code	Waste Description	Pre-2000 Anticipated Amount (Pounds)	Post-2000 Anticipated Amount (Pounds)
D001	Ignitable	640,000	14,100
D002	Corrosive	65,000	1,500
D003	Reactive	22,000	200
D004	Arsenic	21,500	200
D005	Barium	21,500	700
D006	Cadmium	22,000	11,900
D007	Chromium	41,000	2,900
D008	Lead	74,000	6,400
D009	Mercury	29,000	700
D010	Selenium	21,500	300
D011	Silver	71,000	200
D018	Benzene	41,000	4,300
D019	Carbon tetracholoride	22,000	100
D020	Chlordane	2,500	
D021	Chlorobenzene	21,500	100
D022	Chloroform	21,500	100

Waste Code	Waste Description	Pre-2000 Anticipated Amount (Pounds)	Post-2000 Anticipated Amount (Pounds)
D023	o-Cresol	21,000	
D024	m-Cresol	21,000	
D025	p-Cresol	21,000	
D026	Cresol	21,100	100
D027	1,4-Dichlorobenzene	21,100	100
D028	1,2-Dichlorobenzene	22,000	100
D029	1,1-Dichloroethylene	21,000	100
D030	2,4-Dinitrotoluene	22,000	100
D031	Heptachlor (& its epoxide)	21,000	
D032	Hexachlorobenzene	21,000	
D033	Hexachloro-1,3-butadiene	21,000	
D034	Hexachloroethane	21,000	
D035	Methyl ethyl ketone	21,500	2,200
D036	Nitrobenzene	21,000	
D037	Pentachlorophenol	21,000	
D038	Pyridine	21,000	100
D039	Tetrachloroethylene	22,000	600
D040	Trichloroethylene	22,000	600
D041	2,4,5-Trichlorophenol	21,000	
D042	2,4,6-Trichlororphenol	21,000	
D043	Vinyl Chloride	21,000	100
F001	Halogenated – degreaser	28,000	5,200
F002	Halogenated – degreaser	32,000	5,600
F003	Non-halogenated – degreaser	27,000	5,800
F004	Non-halogenated	21,000	100
F005	Non-halogenated	27,000	2,000
K048	DAF – Petroleum refining	2,500	
K049	Slop oil emulsion solids	2,500	
K050	Heat Exchanger Sludge	60,000	16,000
K051	API separator sludge – petrol refining	2,500	
K052	PI Tank bottoms – refining	2,500	
P001	Warfarin	1	10
P030	Cyanides n.o.s.	10	10
P042	Epinephrine	11	30
P081	Nitroglycerine	1	10
P098	Potassium cyanide		10

Waste Code	Waste Description	Pre-2000 Anticipated Amount (Pounds)	Post-2000 Anticipated Amount (Pounds)
P105	Sodium Azide	600	10
P106	Sodium cyanide		10
U002	Acetone	2,500	50
U003	Acetonitrile		10
U007	Acrylamide	2,500	
U019	Benzene	2,500	
U031	Butanol		10
U037	Chlorobenzene		10
U044	Chloroform	1,000	20
U056	Hexahydrobenzene		10
U075	Dichlorodifluoromethane		30
U080	Methylene chloride	3,000	10
U112	Ethyl acetate	2,000	10
U114	1,2-ethane-diyl-bis-carvamodithioic acid/salts/esters	1	10
U117	1,1-oxy-bis-ethane (ethyl ether)	100	
U120	Fluoranthene	500	10
U121	Trichlorofluoromethane	100	10
U122	Formaldehyde	3,000	30
U124	Furan		10
U134	Hydrofluoric acid	2,500	
U135	Hydrogen sulfide	2,500	
U136	Dimethyl-arsenic acid		10
U140	Isobutanol	2,500	
U144	Lead acetate		10
U151	Mercury	3,000	10
U154	Methanol	25,000	4,200
U159	Methyl ethyl ketone	2,500	100
U161	Methyl isobutyl ketone	3,000	10
U165	Naphthalene	2,500	10
U182	Paraldehyde	2,500	
U188	Phenol	10	10
U196	Pyridine		10
U208	1,1,1,2-Tetrachloroethane		10
U210	Tetrachloroethylene	100	10
U211	Carbon tetrachloride	2,500	10

Waste Code	Waste Description	Pre-2000 Anticipated Amount (Pounds)	Post-2000 Anticipated Amount (Pounds)
U213	Tetrahydrofuran	100	10
U220	Toluene	4,500	100
U226	Trichloroethane	7,500	100
U227	1,1,2-Trichloroethane	2,500	
U228	Trichloroethylene	22,000	10
U239	Xylene	3,500	80
U359	Monoethyl ether	1,000	10

Note: Pre-2000 amounts include a summary of 1992 EOA and 1996 WOA Part A application amounts.

2.3.2. De-characterization of Characteristic Hazardous Waste Fluids

BPXA established a process in 2001 for de-characterization and disposal of fluids that exhibit hazardous waste characteristics for ignitability, corrosivity, reactivity, or toxicity. The process conforms to the requirements provided by the Land Disposal Program Flexibility Act of 1996 (Public Law 104-119), 110 Stat. 830, RCRA §3004(g), and administrative regulations at 40 CFR 268.1(c)(3) and 40 CFR 148.1(d). As-generated characteristic hazardous waste is not considered "prohibited" waste if:

- The waste does not exhibit any prohibited characteristic of hazardous waste at the point of injection,
- The waste is disposed into the Pad 3 EPA-permitted non-hazardous Class I injection well, and
- The waste is not injected into AOGCC-permitted Class II wells for disposal or for Enhanced Oil Recovery (EOR).

The process involves de-characterization (by dilution) of characteristic hazardous waste fluids without obtaining a permit or treating on-site in tanks or containers. Common waste fluids eligible for de-characterization on site in the PBU include:

- Turbine wash waters from production facilities that commonly exhibit metals contamination and may contain cadmium and chromium. These wash waters may also contain methanol and acetone, which are used to prevent ice formation, and are not F003 waste.
- Glycols from vehicle maintenance and heater cores and other engines that may contain cadmium, chromium, arsenic, and selenium and may be corrosive.
- Waste fluids containing residual hydrocarbons from production tank or line flushing that are not recycled back into the production stream and may contain benzene.
- Titration fluids from laboratory and field analytical processes and some well work fluids involving acids that may produce non-exempt waste fluids that exhibit characteristics for corrosivity.

- Spill cleanup residues such as methanol-contaminated soils that are not immediately reclaimed and may exhibit ignitability characteristics. Spill residues from alkali or acid releases may exhibit corrosivity characteristics. Spill residues of diesel may exhibit toxicity characteristics for benzene and ignitability.

The volume and composition of these wastes are dependent upon a variety of operations and maintenance considerations as well as the frequency and magnitude of spills that occur in the PBU.

2.4. Solid Waste Management Units & Areas of Concern

A series of Solid Waste Management Unit (SWMU) categories and individual SWMU and Area of Concern (AOC) sites have been identified and included as part of the Order. A description and history of treatment, storage, and disposal activities at these SWMU sites are included herein.

The SWMUs and AOCs described herein are located throughout the Prudhoe Bay facility and include landfills, production and exploration reserve pits, flare pits, relief pits, seawater displacement pits, wastewater impoundments, inactive oily waste cells, other surface impoundments, well cellars, and select contaminated sites or areas of concern. As appropriate, a history and description of waste treatment, storage, and disposal activities that occurred at units within the defined SWMU/AOC categories is provided below. Where applicable, appropriate, and available, a description has been included regarding the volume and composition of the wastes.

2.4.1. Reserve Pits

When oil and gas exploration began in the Prudhoe Bay field, the Alaska oil industry was regulated by the Alaska Department of Natural Resources, Division of Oil and Gas (ADNR/DOG). The first wells drilled were exploratory drilling wells, which typically numbered one per site. The drilling waste disposal technology at the time was to discharge the waste into excavated below-grade pits at the drill site. At a few sites, drilling waste was discharged onto the surrounding tundra, or to above-ground pits formed by the placement of gravel berms on the tundra (OASIS, 2004b).

In 1988, the EPA issued a determination that oil and gas drilling waste was exempted from RCRA Subtitle C hazardous waste regulations. The RCRA subtitle C exemption, however, did not preclude these wastes from control under state regulations, less stringent RCRA subtitle D solid waste regulations, or other federal regulations. As a result of this determination, Alaska drilling waste management was taken over by the ADEC Solid Waste Program.

After the Prudhoe Bay discovery in1968, drilling increased from a single exploration well per site to dozens of wells on each production drilling pad. At production pads, all drilling waste was discharged to large (multi-acre) reserve pits constructed by building above grade impoundments with gravel berms. Materials commonly stored or disposed of in the reserve pits included drilling muds and rock cuttings, small quantities of produced

water and oil production wastes from well workovers and spill recovery activities, additives (polymers, oxygen scavengers, biocides, and surfactants), lubricants, diesel oil emulsifying agents, and various other wastes produced incidental to the drilling of North Slope oil and gas wells. Non-exempt solid wastes were not disposed of in the drilling waste reserve pits.

The reserve pits also served as secondary containment in the event of a spill or well blowout. Additional use included emergency storage of produced water when flow in the water flood lines was interrupted during winter conditions to prevent significant damage if these waters froze within the lines. Water accumulating (from precipitation) in the reserve pits required routine management, including snow removal prior to breakup, discharging of contained water to the adjacent tundra, loading, transporting and applying reserve pit water to roads and gravel pads for dust suppression, and disposal by injection in well annuli or at permitted injection wells.

Promulgation of ADEC solid waste regulations in the mid 1980s brought drilling waste management disposal practices and closure standards under a new regulatory program. These regulations required that new disposal facilities (reserve pits) be constructed with impermeable liners. The regulations also retroactively placed closure approval standards and requirements on all drilling waste pits constructed before drilling waste disposal pits were managed as solid waste disposal facilities. In the early 1990s, a legal agreement between Atlantic Richfield Company (ARCO) and the Natural Resource Defense Council (NRDC) set forth additional closure requirements for production site drilling waste reserve pits (e.g., the excavation and removal of the waste from all EOA production site reserve pits). Later, under the terms of an agreement executed among BP, ARCO and the State of Alaska titled, “Charter for Development of the Alaska North Slope”, BP agreed to close the WOA production reserve pits to the same standards applied to the EOA.

ADEC Inactive Reserve Pit Closure Program

Under ADEC inactive reserve pit closure regulations (Alaska Administrative Code 18 Chapter 60, Section 440), the closure standard for inactive reserve pits is based on protection of surface and ground water[1] and the prevention of impacts to human health or the environment. The closure standard for inactive reserve pits requires the drilling waste to be contained to ensure that contaminants do not migrate off site. This means that the waste would not cause an exceedance of Alaska Water Quality Standards (AWQS) for the following contaminants of concern (COC): several metals (As, Ba, Ca, Cr, Pb, Mg, Ni, Na, and Zn), benzene, toluene, ethylbenzene or xylenes (BTEX), or Diesel Range Organics (DRO). In order to meet this standard, all reserve pit waste must be property capped or removed prior to reserve pit closure approval. The regulations do allow closure of sites with minor exceedances of AWQS under certain circumstances (risk analysis).

[1] Due to extensive permafrost on the North Slope, no ground water or drinking water wells are present within the PBU.

Between 1990 and 2002, ARCO and BP completed site assessments and prepared closure plans for review and approval by ADEC. ARCO and BP collected and analyzed water samples from all reserve pits as well as up-gradient and down-gradient surface water samples and compared those results with AWQS. This water quality information, along with the site history, current site conditions, and proposed corrective actions to bring the sites to compliance with ADEC closure standards was included in the closure plans. After reviewing the closure plans, ADEC could approve the plans as presented, approve the plans with stipulations, or in some cases, reject the plans because they did not address the requirements of the program or the plans misrepresented site conditions. After approval of the closure plan, a specific work plan approval was required before any required corrective actions work could begin at the sites. Drilling waste reserve pits are divided into two categories: production sites and exploration sites.

Production Site Reserve Pits

There are 43 oil and gas production sites in the PBU. Twenty are located in the WOA, and 23 are located in the EOA. Most production sites contain two to four individual reserve pits. The rectangular reserve pits are large (1-3 acres in size) above-grade impoundments, with a row of oil production wells along one side. Each pit was designed to hold tens of thousands of cubic yards of drilling waste. Due to various agreements between the Prudhoe Bay operators, the NRDC, and the State of Alaska, drilling waste removal is required from all PBU production site reserve pits prior to final closure approval by ADEC. Large-scale excavation of Prudhoe Bay production site waste began in 1996. The drilling waste excavated from the pits is transported to a Prudhoe Bay facility grind and injection disposal facility. After the waste is removed from the pits, the pits may be approved for final closure approval under ADEC inactive reserve pit closure standards.

The challenge of excavation technology is to determine when the waste has been completely removed. Diesel is the most common contaminant of concern (COC) in PBU drilling waste. The AWQS for petroleum hydrocarbons in surface water is no visual sheen. At these sites, the drilling waste and adjacent contaminated ground was excavated until the sites would pass the tests for hydrocarbon sheening. These tests consisted of on site visual testing (the shovel test) as well as chemical analyses for total petroleum hydrocarbons. In addition, any water remaining at the sites was tested for the metal COCs. The testing results were reviewed by ADEC, after which they conducted individual site inspections before issuing final closure approval.

As of November 2007, excavation of drilling waste is complete on 29 of the 42 production site pads within the PBU. Of the 29 sites where drilling waste removal has been completed, 16 have received final closure approval from ADEC. All permanent closure approvals from ADEC are issued with the stipulation that ADEC may require additional investigation, assessment, monitoring, or remediation if new information regarding conditions indicates that further actions are necessary to protect human health or the environment.

Exploration Site Reserve Pits

Most PBU exploration wells with reserve pits were drilled between 1969 and 1980. Exploration site reserve pits were generally constructed by excavating a pit in the permafrost adjacent to the drill site gravel pad or drilling platform. The volume of waste in exploration site reserve pits is only a small fraction of the waste in production sites. Typically, the drilling waste volume at exploration sites is between 5,000 and 10,000 cubic yards. If the pits were properly capped at abandonment, the waste at these sites is encapsulated in permafrost.

The ADEC closure requirements for exploration site pits that were abandoned as open impoundments vary according to site specific conditions. The drilling mud technology at the time was to use diesel as a drilling mud additive (as a lubricant and hole conditioner). For this reason, hydrocarbon sheening from the drilling waste may be present at PBU exploration sites. ADEC will not grant closure approval to reserve pits abandoned as uncapped open impoundments. The waste must be properly capped and sealed in place or the waste must be excavated and the excavated pit backfilled and capped. The decision for the closure method depends on the depth of waste below grade, the site location, ease of access, and the risk of contaminant release. ADEC, in conjunction and coordination with other state and federal agencies and the North Slope Borough, decides which corrective actions to approve or stipulate for such sites. The agencies include ADEC (solid waste and contaminated sites programs), USACE (U.S. Army Corps of Engineers), the U.S. Fish and Wildlife Service (USFWS), the ADNR/DOG, and the EPA.

There are 40 exploration sites within the PBU, subject to the Order. ADEC has issued final closure approval to 17 of these sites. Of the 17 sites, 10 were approved for closure with the wastes buried in place, and wastes were excavated from seven of the sites. Corrective actions mandated by ADEC are ongoing or planned for the remaining 23 exploration sites. These actions must be completed before ADEC will issue final closure approval. BPXA generally works on three or four sites per winter work season, so it will be several years before work is completed at all the sites.

Changes in Drilling Waste Disposal Practices and Technology

During the first thirty years of exploration and development of the Prudhoe Bay field (1960 to 1990), the standard practice for disposal of drilling waste was discharge into reserve pits (excavated impoundments or surface impoundments), formed by the placement of gravel berms on the tundra surface. The 1977 production agreement among the PBU unit working interest owners fostered development and implementation of consistent drilling waste management practices and programs. In 1979, USACE asserted its right to regulate use of wetlands and initiated permitting processes for surface facilities. A general 404 permit issued in the early 1980s included stipulations requiring reserve pits, relief pits, and flare pits to be rendered impermeable, noting that permafrost alone was not a sufficient barrier to the migration of contaminants off-site. This requirement resulted in a practice of applying drilling muds to the inside of reserve

pits under a theory that the muds would coat and seal the gravel berm. It was determined in 1984 that this non-active practice was not entirely successful, and nearly all the reserve pits were susceptible to seepage.

In the early 1990s, there was a fundamental change in the technology for drilling waste management and disposal. The preferred disposal technology changed from surface "landfill" disposal to disposal by deep underground injection. Since 1990, no surface waste disposal pits have been constructed on the North Slope. All drilling waste is injected down the annulus of the bore hole being drilled, injected down Class I or II injection wells at the production facility, or is transported by truck to the central grind and injection facility located on Drill Site 4 (DS-4) in the Prudhoe Bay facility. All new satellite oil field developments on the North Slope include onsite drilling waste grind and injection capability as a standard part of the drilling process. As drilling waste is generated from one hole, it is processed for injection back into the subsurface in an approved injection well.

In the last decade, dramatic changes in drilling engineering and technology have also significantly reduced the volume of drilling waste generated in North Slope oil field development. These changes include smaller diameter bore holes and the development of side tract drilling, where oil is produced from multiple horizons from one surface well. In addition, advancements in long reach and horizontal drilling enables oil production hundreds or even thousands of feet from each well. This horizontal drilling technology is not applicable to every oil reservoir, but for the reservoirs that allow this type of development, there is a significant reduction in the number wells drilled and, therefore, a proportionally significant reduction in the volume of drilling waste produced.

No specific studies are available on exactly what percentage of waste reduction is achieved by these technological and engineering improvements in drilling and reservoir development. It is estimated that the volume of drilling waste for new North Slope oil fields is decreased by 30 percent due to the reduction in the size of the bore holes, and there is likely an additional 20 percent volume decrease due to a smaller number of wells drilled to develop modern oil fields. This gives an estimate that technological improvements in the last ten years have resulted in a 50 percent reduction in drilling waste volume.

2.4.2. Inactive Oily Waste Cells

Three facilities are identified as SWMUs with inactive oil waste cells: Pingut Pit, Pad 3 – Cell 1 and Cell 2, and Pad 3 – East Pit.

Pingut Pit

The Pinqut Pit was located near the L-4 and Surfcote pads in the EOA. It was originally constructed as an excavated exploratory reserve pit with a total pit volume of 17,800 cubic yards. Between 1976 and 1986, Pingut Pit was used for containment of oily wastes, including storage tank washing wastes, production separator sludge parafins, natural gas liquids, oil-based drilling muds, lost circulation material wastes from drilling,

wastes from well maintenance (workovers, wire line operations, and pigging pipes), and containment of contaminated snow and gravel (ARCO Oil and Gas Company, 1979). The pit was used to separate and reclaim frozen oily and non-oily solid material. Frozen wastes were stored in the pit during the winter. Liquids from the pit were removed during the summer and used for road oiling prior to 1984.

After 1984, the recovered liquids were recycled through production facilities or injected at the Pad 3 injection facility. Solids were removed from the pit and used to maintain and upgrade the existing road and pad network. The estimated maximum annual throughput of solid waste materials was 2,800 cubic yards. In 1986, ADEC issued ARCO Alaska, Inc. a notice of violation resulting from an overtopping incident. The pit was closed in 1987 per a plan approved by ADEC. The approved plan involved burial of an estimated 850 cubic yards of sludge primarily containing oily gravel nine feet below grade (ARCO Alaska, Inc., 1986). Closure involved freeze-back of the pit within the permafrost, overburden capping, and annual visual inspections, thermistor monitoring, and active layer water sampling for five years. Results from monitoring conducted in 1993 verified continued containment of the buried waste.

Pad 3 - Cell 1 and Cell 2

Pad 3 East Pit was located near Drill Site 6 (DS-6) in the EOA. Cell 1 was constructed in 1988 for disposal of oily waste materials in accordance with ADEC solid waste disposal permit 8736-BA002. Cell 1 last accepted waste in 1989 and was capped in 1991. ARCO planned to close or dismantle the cell at some point in the future (PRC, 1993). Approximately 15,000 cubic yards of oily wastes are currently buried in Cell 1 (PRC, 1993). ADEC reported the presence of leachate leaking from Cell 1 to ARCO Alaska, Inc. in 1989 and recommended studies be performed to evaluate environmental impacts. An annual monitoring program was subsequently developed and implemented. Routine monitoring results indicate surface water downgradient of Cell 1 was not impacted by Cell 1 solid waste management, nor is it presently impacted.

Cell 2 was the second oily waste disposal cell permitted and constructed at the EOA Pad 3 facility. This cell was intended to be permanent disposal monofill designed to freeze the waste in place permanently. Construction of Cell 2 was completed by January 1990, at which time the cell went into operation and began receiving oily waste from within the Prudhoe Bay Unit (OASIS, 2007). Cell 2 continued operating until July 2001 when ADEC withdrew its approval for continued use of the cell due to concerns regarding containment integrity based on the results of surface water samples collected northwest of this disposal cell.

In 2002, BPXA requested and received approval from the EPA and ADEC to dispose of the waste from Cells 1 and 2 into the Class II disposal wells at the DS-4 G&I facility. BPXA began excavating waste from Cell 2 in the winter 2002/2003 season and completed the removal action in December 2005. Confirmation samples indicated removal action was complete, and the excavation was backfilled in May 2006 (OASIS 2007). Monitoring and closure of Cell 2 was performed under ADEC Solid Waste

Disposal Permit No. 9536-BA004, issued in 1995. Approximately 82,500 loose cubic yards (LCY) of oily waste and associated gravel/native soil was removed from Cell 2 between 2003 and February 2006 in approximate numbers: 12,000 LCYs was excavated in 2003, 28,000 LCYs in 2004, 25,000 LCYs in 2005, and 16,500 LCYs in 2006. Cell 2's melt water was disposed in the Pad 3 Class I injection wells. All solid waste was disposed at the North Slope Borough's (NSB) Oxbow Landfill. Cell 2 must be backfilled before initiating excavation of the Cell 1 wastes. Upon completion of corrective action at Cell 2, ADEC allowed the cessation of surface water monitoring activities associated only with Cell 2.

Cell 1 decommissioning began during September 2006 and was completed by May 2007. Approximately 52,320 loose cubic yards (LCYs) of waste were excavated from Cell 1. The excavated area was backfilled to above-tundra grade. The surface water monitoring program for Cell 1 will continue as described in the expired permit until closure is granted by ADEC (OASIS, 2007a).

Pad 3 – East Pit

The East pit is located on Pad 3 adjacent to DS-6 in the EOA. The East Pit cell was constructed in 1989 on top of the gravel pad and permitted as a monofill under the ADEC Solid Waste Program (ADEC Permit No. SWG0308004). East Pit was an active-lined waste storage pit until the waste, liner, and associated gravel were removed during May 2005 closure activities. During pit closure, wastes and associated gravel adjacent to the liner were removed and hauled to the grind and inject (G&I) facility at DS-4. East Pit was originally used for temporarily staging of contaminated snow and ice, which was treated or disposed of after melting during the summer. Following upgrades made to the pit liner in 2001, RCRA exempt waste and RCRA non-exempt, non-hazardous waste originating as contaminated snow and shale-shaker sludge from the Pad 3 injection facility were placed in the cell.

Prior to closure in May 2005, East Pit contained an estimated 2,000 bank cubic yards (BCY) of RCRA exempt and RCRA non-exempt, non-hazardous waste. The contents of the pit were removed during closure as well as the supporting liner and impacted soils beneath the liner. Confirmation soil sample results indicate that historical site activities associated with East Pit have not degraded the nearby environment, and clean closure has been achieved (OASIS, 2005b).

Surface water compliance monitoring was conducted in July 2005. Results indicate surface water down-gradient from the Pad 3 East Pit facility does not appear to be impacted from site solid waste management operations (OASIS, 2005c).

2.4.3. Tuboscope

In 1978, the Tuboscope facility was located on the BOC pad in the WOA and was used for inspection of new and used tubulars. Routine activities at the site involved cleaning threaded well piping with solvents to remove pipe dope from the threads. The pipe dope contained lead, and solvents used included 1,1,1-trichloroethane (TCA). These activities

occurred on bare ground since the facility was constructed without flooring. In addition, a 5,000 gallon above-ground diesel storage tank was present at the facility and used to supply fuel for the building generator. In 1982, a fire destroyed the Tuboscope facility, and subsequent investigations were conducted to evaluate resulting environmental impacts to the site. Evidence of TCA contamination was detected in the surface water surrounding the pad. The TCA detected in the water is likely the result of releases of solvent during past operations and releases from the 1982 fire. BPXA has determined that the waste solvent present at the site is a listed hazardous waste, as defined in RCRA subtitle C regulations. Spent TCA solvent released during historical operations or released during the fire would be classified as a spent halogenated solvent used in degreasing, listed as waste code F001.

Interim measures were used in 1983 to stabilize the site, including the installation and subsequent modification in 1987 of a collection system to contain and collect contaminated run-off, which would occur during the summer months. Multiple assessments were conducted between 1983 and 1996 to define the extent of impacts and to identify remedial alternatives. A granular activated carbon (GAC) water treatment system was subsequently designed and installed in 1996 to reduce TCA concentrations in the drainage ditch water prior to transfer of this water and injection at the Pad 3 injection facility (Woodward-Clyde, 1998a). Based on a “contained-in” determination, treated water has to meet standards established and approved by the EPA that confirm the water no longer contains hazardous wastes and meets applicable land disposal restrictions prior to disposal.

The EPA issued an Administrative Order of Consent RCRA-10-99-0179 in 1999 mandating the implementation of the GAC water treatment system as an interim corrective measure to protect human health and the environment. Before the Tuboscope Administrative Order was finalized in 2000, the EPA had to grant a contained-in determination for each tank of treated water collected. This requirement essentially limited the treatment volume to one 10,000-gallon tank per summer season (due to the time frame for obtaining a “contained-in” determination from the EPA). The Order included a provision for allowing disposal of water after treatment as long as treated water met the treatment standards contained in the Order.

The volume of surface water treated and sent to the BP Pad 3 disposal well has ranged from 12,000 to 250,000 gallons over the six summer seasons. The difference in volume of water treated each year is a function of seasonal temperature variation, laboratory analysis turnaround times (to confirm that the treated water met treatment standards), treated water capacity, and need for system repairs during a given summer season.

The canisters containing spent GAC are subject to RCRA subtitle C standards for hazardous waste management as a listed hazardous waste. Drums of GAC generated as waste has ranged from two to ten drums per year, depending on system throughput. Any spent GAC generated during the treatment season is transported out of Alaska for disposal. The annual Tuboscope Progress Reports list the manifest numbers for these

shipment events. Table 2-9 summarizes the relevant parameters that affect treated water volumes and GAC canister usage.

TABLE 2-9. TUBOSCOPE CONTAMINATED SITE, SUMMARY OF WATER TREATED AND GAC USAGE

Year	GAC System Start Date/End Date	Season's Treated Water Volume (gallons)	Treated Water Storage Capacity (gallons)	System Notes	GAC Canisters Replaced
2000	July 11/ Aug 28	12,600	7000	1st year several start-up issues to work out	0
2001	June 30 / August 24	79,800	28,000	Ten-day shut-down to fix canister lid	4
2002	June 4 / Sept 24	89,300	28,000	Slow pumping rate eventually traced to excessive biological growth in collection channel that plugged GAC pre-filters	2
2003	June 17 / Sept 17	250,000	49,000	Storage volume increase helped allow increased treatment volume, along with aggressive change of pre-filters	6
2004	June 13 / Sept 4	200,000	28,000	Only two storage tanks available	10
2005	July 5 / Sept 5	148,400	28,000	System start-up delayed for repair of damage that occurred to system during winter storage period	7
2006	June 13 / Sept 15	113,800	28,000	Longer than usual lab Turn Around Time (TAT); likely that barrier wall for pilot test reduced flow to collection channel	7

BPXA must perform a system evaluation of the GAC water treatment system every five years during the period the GAC interim measure is active. The first system evaluation was performed in 2005, and the assessment concluded that the interim measure had been effective in containing the contamination to protect human health and the environment. The System Evaluation Site Assessment report (OASIS and E2 Solutions, 2006) summarizes the results of the assessment.

Remedial investigation continues for the evaluation and selection of final corrective measures. Pilot testing was performed in 2006 using bimetallic nano-scale particle (BNP) technology to abate the chlorinated hydrocarbon impacts. Results of the field pilot test found BNP treatment technology capable of reducing mean TCA concentrations in soil by 90%. An evaluation to determine if any TCA daughter products were formed through incomplete destruction of TCA showed a statistically defensible increase in 1,1-dichloroethane of 20%. The speculated secondary benefit of the treatment technology pertaining to a reduction in lead mobility proved inconclusive, given variability in soil and groundwater sampling results for total, leachable, and dissolved lead (OASIS, 2007b).

The effectiveness of two distinct treatment methods, physical mixing and slurry injection, was also evaluated as part of the field test. Physical mixing with BNP slurry at shallow depths (4 feet to 5 feet below ground surface) proved much more effective when compared to BNP slurry injection through vertical well points (OASIS, 2007b).

2.4.4. Landfills

Alternate solid waste disposal sites available to Prudhoe Bay operators in the 1970s and 1980s provided non-reserve pit options for the management and disposal of non-exempt solid and hazardous waste during the early production years on the North Slope. A history and description of waste disposal activities at landfills in the GBP unit are summarized below.

ARCO Hanger Disposal Site

The landfill was used for the disposal of oil exploration wastes collected by ARCO during North Slope tundra cleanup operations from 1971 to 1973. Approximately 8,315 empty crushed drums were buried at the site along with empty powder boxes, gasoline cans, propane bottles and other inert debris including tin cans, bottles, and scrap metal. Records indicate the landfill was limited to the area of an old sewage lagoon and wastes were buried in layers between sand and gravel over the two year time period. Written records are contradictory, indicating wastes were either buried and capped with 10 feet of sand and gravel or buried at depths ranging from 1.5 to 12 feet below pad surface. Magnetometer survey data from 1995 indicate metal debris is present at depths ranging from 1.5 to 6 feet below pad surface. Removal action has not occurred and the wastes remain buried in the subsurface.

The site is listed on the EPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) listing of potential hazardous substances contaminated sites. A Preliminary Assessment prepared in 1984 by Tetra Tech indicates disposal of 10,000 to 80,000 drums, some containing drilling muds and gelled diesel from old wells in 1973 and 1974. The Tetra Tech report does not correlate with other historical reports or photographs and its claims were questioned by CH2MHill in 1995 following their review of available records (CH2MHill, 1995).

Surface water samples collected from the off-pad tundra ponds adjacent to the pad indicated chlorine, barium, magnesium, potassium and sodium were present within the range of background concentrations for surface ponds in PBU. Extractable petroleum hydrocarbons were also reported in these samples just above detection limits within the concentration range typically observed in background samples. Wastes buried five to seven feet below the surface of the pad are believed to be frozen in permafrost conditions. Seeps and stains were not visible along the edge of the apron pad in 1995.

Sand Dunes Landfill

The Sand Dunes Landfill (SDL) served as ARCO's solid waste disposal site from approximately 1969 to 1980 and on two other occasions in 1981 and 1983. A review of historical aerial photos indicates more than 25 impoundments were present at the SDL site during its period of operation. The SDL measures approximately 62 acres in size and contains one area considered the Fire Training Grounds (9.2.1) (6 acres) and another considered the Resource Recovery Facility/Materials Storage Area (6 acres). A natural gas flare was present at the landfill and used to treat metal that was contaminated with hydrocarbons prior to on-site burial. After the landfill closure in 1980,

it was used two more times between 1980 and 1983 when problems were encountered at the NSB Landfill. A cap was installed on top of the landfill during closure in 1984. The SDL was certified closed by ADEC in 1985 after it was capped with two feet of overburden and graded for proper drainage.

Solid waste disposal activities were governed by permits issued by ADEC beginning in 1973. Wastes buried at this site include:

- Scrap metals from construction projects, empty drums, pipes, valves, conduit, and wire;
- Oil-based drilling muds and drilling mud tank wash water discharged in two separate impoundments;
- Wrecked vehicles and aircraft;
- Tires;
- Used lead acid batteries;
- Incinerator ash;
- Residue from burned garbage; and
- Solid wastes (1981 and 1983).

The landfill also served as an accumulation site during the winter for both empty and full drums. During the summer, the accumulated drums were drained, crushed and burned. ARCO operated a natural gas flare at the landfill to burn combustible wastes. Spills of petroleum products in the landfill among both the empty and full drums were documented by ADEC. A fire also occurred in the drum accumulation and processing area in 1977. Contaminated soils impacted by spills were reported to have been excavated and burned in the site's natural gas flare (PRC, 1993).

In 1983, approximately 15,000 drained, crushed, and burned drums, generated by the cleanup of a North Slope salvage site in Deadhorse, were buried in a portion of the landfill.

In 1984, the landfill was identified as a potential CERCLA hazardous substance contamination site (EPA Identification Number: AKD 991281262). A preliminary assessment was conducted in 1984 by Tetra Tech which reported that drilling muds, drilling mud additives, heavy metals, and solvents may have been disposed of at this site. The landfill was closed in September 1984, and as of 1993, there was no evidence of any releases of hazardous wastes or hazardous constituents. Site investigations were not completed prior to 1993.

In 1985, an EPA sampling and site inspection event was performed. During the 1985 sampling and site inspection no release of hazardous substances was noted in the ADEC Contaminated Sites Database. Records of the sampling and site inspection event could not be located in the BP files.

In 1994, a post-closure evaluation was conducted but no samples were collected. During the site inspection, exposed debris was identified at several locations. Excessive surface

erosion due to wind action was noted on the landfill cap. No vegetation was present on the top layer of the cap. Dune grasses were planted in this area in the years following this visit.

In 2001, the SDL was visited to assess the erosion conditions of the cap. During the 2001 site inspection, erosion in the form of runoff gullies was noted on the center of the cap. In 2002, two active-layer water samples (WP-10 and WP-12) were collected in 2002 from the area where the fire training grounds (FTG) borders the SDL. DRO was reported in the active-layer water at concentrations above ADEC groundwater cleanup standards.

Pad 13 Disposal Site

Pad 13 is located in the EOA adjacent to DS-4 and was historically used as a storage and staging area for excess equipment and drilling mud components. The site is also a suspected waste disposal site. ARCO has indicated that between 1969 and 1980, leftover construction materials may have been buried at the site. However, attempts to locate buried materials within the pad have been unsuccessful in confirming this assertion. ARCO has also reported a release of fluids containing barium, chromium and toluene occurred during 1982 and 1983 that may have been associated with a relief pit at DS-4 (ADEC, 1987).

In 1982, seepage was discovered at the base of Pad 13 near the waterline of the Sagavanirktok River, potentially associated with the release referenced above. A small leachate pit was dug to contain the dark brown fluid. Samples were collected and results indicated many of the same constituents as those found in drilling mud (humic acid, elevated levels of sodium, aluminum, silicon, chromium, barium and iron, total dissolved solids and high conductivity) were present. An unknown volume of leachate was recovered and containerized at this time. No records were found to document handling and final disposal of this material.

Two attempts were made to locate the source of the seep within the pad in 1982. The first attempt involved the excavation of an area of 135 feet by 60 feet by 4 feet, but this produced negative results, and the area was backfilled. The second attempt involved punching a series of eight holes that were approximately 10 inches in diameter and 32 feet deep into the pad. This attempt also produced negative results.

In 1995, site inspections were performed in June and August. Small pieces of wood and metal were scattered on the site and two small ponds were noted on the pad surface. Records indicated two surface water samples were collected in June 1995, but the physical sampling locations are unknown (presumably from two small ponds present on the pad surface). BTEX constituents were not detected in the two samples collected, but barium, sodium, potassium, and sulfate were reported above detection limits in both samples.

WOA C Pad Landfill

The eastern end of the WOA C Pad was used as a solid waste burn pit from 1974 through 1978, prior to pad expansion and RCRA interim status hazardous waste storage

unit (HWSU) operations at this location, which occurred from 1980 to 2000. A total of four burn pits are identified in the C Pad closure certification. Between 1971 and 1973, this SWMU was used primarily as a reserve pit. In 1977, under permit NR3077 from ADEC, a natural gas flare pit was used to burn putrescible and combustible waste, and eight landfill cells were constructed for disposal of the ash and non-combustible scrap metal. Wastes incinerated at the pad originated from routine maintenance of field equipment and vehicles, periodic construction projects, production laboratory operations, office activities, and maintenance activities at production pads (ADEC, 1987). The amount of material burned at the flare pit is unknown.

Buried ash from burn pit operations was discovered during closure of the RCRA HWSU in 2000. The extent of buried ash at C Pad was determined in 2002 and laboratory results were used to characterize the ash as a non-hazardous waste for subsequent disposal. Due to the presence of the ash within a zone of active-layer water within the pad, the planned removal action needed to occur during winter when the water table is frozen in order to lessen environmental impacts from the removal action (BPXA, 2002).

In May 2004, pad excavation activities occurred and approximately 850 cubic yards of ash-containing gravel and debris were removed. Post removal verification sample results confirmed the site met the closure performance standards, and the excavation was backfilled. A closure certification report was submitted to the EPA in August 2004 (OASIS, 2004c).

Surfcote Landfill Site

The Surfcote Landfill Site was used for the one-time burial of an estimated 9,300 to 20,000 cubic yards (3,000 to 6,000 tons) of scrap metal in 1980 in accordance with a solid waste disposal permit issued by ADEC. The waste included 500 to 600 tons of crushed drums containing undefined residues. With the exception of the crushed drum residues, hazardous wastes or wastes containing hazardous constituents were not believed to have been buried in place at the Surfcote Site. No releases of hazardous wastes or hazardous constituents were known to have occurred. The solid waste was buried within permafrost soils to limit or prevent migration of contaminants (ADEC, 1987).

2.4.5. Drill Site and Facility Flare Pits

Flare pits were constructed at most of the drill sites between 1969 and 1980. Flare pits were also constructed at flow stations, production facilities, and gathering centers. These impoundments were constructed of compacted gravel fill and provided a location to flare large volumes of well fluids. During the early development stages of the PBU Facility, flare pits were used to test each well when oil/gas/water test separators were not available. The pits also provided emergency flaring capacity in the event of a well or facility upset. The flare pits were used infrequently and have been inactive since the late 1980s. These fluids are currently transferred through gathering lines for processing at production facilities.

Some of the flare pits have been covered-over during subsequent drill site expansion, while others remain. A total of 26 flare pits remain at drill sites in the EOA and WOA. Records do not indicate which of the flare pits have been used and what materials were burned in the flare pits. However, records indicate the flare pits at the Lisburne Drill Sites were never used (ADEC, 1987; PRC, 1990). A total of 6 flare pits are present at Lisburne drill sites.

2.4.6. Drill Site Relief Pits and Seawater Displacement Pits

Relief pits are located at each drill site to contain fluids released from the drill site's manifold building, as part of operational safety systems. Records indicate the relief pits were used intermittently, and following use, the fluids were removed and added to the crude oil production stream or re-injected.

Seawater displacement pits provide a containment area for seawater displaced from injection lines in the event of imminent freeze up or pigging operations. The impoundments also serve as spill containment areas for a methanol/water solution storage tank located within each impoundment. Hazardous waste or solid waste containing hazardous constituents are not known to have been placed into these impoundments nor are releases known to have occurred. The seawater displacement pits are located near the manifold buildings at water-flood injection drill sites.

2.4.7. Drill Site Wastewater Lagoons

Between 1969 and 1977, disposal practices on the drilling pads involved the discharge of sewage from rig camps to gravel-diked surface sewage lagoons adjacent to the pads. Treated wastewater from the drill rig and residential camps was generally discharged under ADEC permit to the adjacent lagoons (ADEC 1987). Records documenting the location of a majority of these lagoons could not be found. Many of these lagoons have been incorporated into the gravel well pads during subsequent expansions. Sewage lagoons are no longer used in the PBU unit and have been replaced by a central sewage treatment plant. File documents indicate that the sewage was removed and the lagoons were properly closed.

2.4.8. Well Cellars

Individual production wells are generally surrounded by well cellars of varying design and construction and enclosed in well houses. The variation in design is due to historical practices, regulatory requirements, owner/operator standards, and drilling contractor preferences. Well cellars are currently designed to contain crude oil and produced fluids generated during production, workover, winterization, shut-in, or other related production, operations, and maintenance activities. Documentation indicates some of the older production wells do not have cellars, and well cellars constructed in 1977 were significantly different than those constructed in 2007. BPXA and the former operators performed periodic maintenance and have either replaced outdated well cellars or installed new well cellars at the active production wells at the PBU Facility.

Newer well cellars are generally sealed around the well to prevent leakage into the surrounding environment and are kept clean and dry. Older well cellars are not sealed and contain a gravel floor.

The subsurface well cellars are designed to contain limited quantities of drilling fluids from drilling operations. When releases occur in well cellars, vacuum trucks are generally used to collect and transport spilled materials to the gathering centers or other suitable disposal facilities. Well cellars and any contaminated soils are currently removed when a well is abandoned.

2.4.9. Other Active Operational Sites

T Pad Solid Waste Facility

The T Pad lined storage cell was initially constructed in 1989 and is located in the middle portion of the T Pad reserve pit. Drilling wastes from a former reserve pit at this location were excavated and removed in 2001 and reserve pit closure granted by ADEC (ADEC, 2001). Gravel dikes were subsequently constructed across the reserve pit after the drilling waste was removed and a liner installed. A permit was obtained from ADEC (General Permit No. SW0308000) for the temporary storage of oil and gas exploration and production (E&P) waste and RCRA non-exempt non-hazardous drilling waste. The capacity of the temporary waste storage pit is 9,400 cubic yards (BPXA, 2001). The permit is valid until March 2008, and the cell is still active (ADEC, 2004b).

The surface water surrounding the site is monitored annually as part of the Compliance Program. Four established surface water sampling locations are analyzed for DRO, BTEX, and metals. Surface water sampling results from the annual Compliance Monitoring Program indicate that the surface water meets applicable water quality standards for freshwater systems and has not been impacted from the site waste storage facility operations (OASIS, 2007c).

Construction Camp 2A Storage Pit

Construction Camp 2A (CC2A) was constructed in the mid-1970s and remained in use until 1989 when it was dismantled. A G&I Ball Mill facility was constructed and operated at the site from 1990 to 1999. In 1992, there was a large timber crib storage pit present northeast of the Ball Mill. In 1993, a smaller crib structure was present between the Ball Mill and the Fire Training Ground. By 1997, neither crib was present. However, the storage pit associated with the facility remains in use today, and the pad is currently used for dry storage. The CC2A G&I Ball Mill was operated under an ADEC Solid Waste Treatment Facility Permit (9721-BA002).

A lined monofill was permitted in 2003 and constructed for storage of RCRA exempt exploration and production wastes and non-exempt non-hazardous wastes. The permit is valid until 2008, and the cell is currently active.

Surface water at the site is monitored in accordance with ADEC General Permit No. SWG0308001, which stipulates annual collection of three surface water samples from locations within 200 feet of the facility. Upgradient and downgradient surface water

monitoring is performed. Surface water sampling results from the annual Compliance Monitoring Program indicates that the surface water meets applicable water quality standards for freshwater systems and has not been impacted from the site solid waste facility operations (OASIS, 2007d).

Drill Site 4 Grind & Inject Storage Cells

Drill Site DS-4 G&I facility uses two Material Transfer Stations (MTS), MTS #1 and MTS #2. The capacity of the MTS #1 storage cell is approximately 12,000 cubic yards (cy) and the capacity of MTS #2 storage cell is approximately 19,600 cy. These cells store RCRA-exempt non-hazardous exploration and production wastes for injection into three designated Class II disposal wells. The storage cells are currently active.

Surface water from five sampling locations surrounding the DS-4 G&I Facility are monitored annually as part of an ADEC Compliance Program. Surface water sampling results from the annual Compliance Monitoring Program indicate that the surface water meets applicable water quality standards for freshwater systems and has not been impacted from the site solid waste management operations. (OASIS, 2007e).

W Pad Drilling Storage Cell

W Pad, formerly known as Eileen West End Pad #W-1 is located on the west side of the PBU. The solid waste storage cell at W Pad was constructed in the spring of 2004 and is located in the southwestern corner of an impoundment formerly used as a reserve pit. The lined waste storage cell was constructed for storage of RCRA exempt exploration and production wastes and non-exempt non-hazardous wastes. The primary purpose of the storage cell is to provide temporary storage for drilling wastes west of the Kuparik River when the bridge is not passable due to spring flooding. Wastes will be cleaned out as needed and transported to the DS-4 G&I facility. Non-exempt and non-hazardous wastes removed from the cell may or may not be taken to the G&I facility (BPXA, 2003). The storage cell is still active.

Since its construction in 2004, annual surface water monitoring has been performed in compliance with the ADEC General Permit No. SWG0308002 and 18 AAC 60. During 2004, a water bulge was discovered underneath the liner in the eastern portion of the pit (ADEC, 2004). In September 2005, the cell was dewatered by cutting the bottom liner to facilitate recovery of the water beneath bulge. This fluid was sampled and additional surface water samples were collected from outside the solid waste cell. The cut in the liner was subsequently patched following the removal of bulge water.

The 2005 sample results of the liner bulge water and results from the 2007 surface water monitoring event indicate that water quality continues to meet applicable standards for freshwater systems and is not impacted from site solid waste facility operations (OASIS, 2005d; OASIS, 2007f). Reports indicate the bulge water beneath the liner was similar to the un-impacted surface water and apparently generated as a result of a melted ice lens beneath the footprint of the cell.

West Pit at Pad 3

Little information is known regarding the construction and contents of the West Pit at Pad 3. Pad 3 is located adjacent to DS-6 in the EOA and was constructed between 1969 and 1971. Records documenting the initial construction date for the West Pit were not available. Records indicate that in June 1996, the pit reportedly contained 1,300 cy of gravel contaminated with hydrocarbons and glycols. At that time, ADEC granted approval to ARCO Alaska Inc. for a delay in closure of the West Pit until September 1997 (ADEC, 1996).

Records have not been located for the period between 1996 and 2002. The pit was permitted as a long-term storage cell for containment of non-hazardous, RCRA-exempt petroleum contaminated gravel and soils. Two year permit extensions were requested from ADEC and granted in 2002 and 2004 (ADEC, 2002a; ADEC, 2004c).

2.4.10. SWMUs Omitted with EPA's Agreement

With EPA's prior agreement, several SWMU sites have been omitted from the Administrative Order on Consent primarily due to previous regulatory closures, the documented absence of hazardous waste or hazardous constituent releases, or current regulation as permitted hazardous waste facilities. The omitted SWMUs include the following:

- Solid Waste & Sewage Incinerators
- Waste Water Treatment Plants and Sewage Lagoons
- Waste Injection Wells (Class I & II)
- Tanks for Waste Storage
- Maintenance Shop and Central Laboratory Sumps
- Ullage tanks at Gathering Centers
- Paint Shop in WOA
- Poly- Chlorinated Biphenyl (PCB) Storage Trailer (light ballasts)
- Temporary Waste Staging Areas
- Hazardous Waste Processing Module (EOA)
- Hazardous Waste Processing Facility (POL Building)
- West Dock Material Storage Area
- East Dock Material Storage Area
- Environmental Shop at BOC prior to POL
- Santa Fe Pad Drum Crushing Facility
- WOA Waste Transfer Facility (Santa Fe Pad)
- EOA Waste Transfer Facility (C Pad)
- Gathering Centers 1 & 2
- Prudhoe Bay Operations Center (PBOC) Disposal Site

- Hazardous Waste Storage Facilities (C Pad EOA HWSU & C Pad WOA HWSU)

2.5. Release Summary

Releases and spills of a variety of oil field products have occurred as a result of historic and ongoing oil and gas exploration and production activities in the PBU. This section provides a summary of ADEC-reportable releases associated with BPXA operations conducted within the PBU. It is important to recognize that ADEC regulatory requirements for release reporting have changed from 1971 to the present. A summary of these changes is discussed below. The data summary provided herein is based on information of varying quality and quantity. Release information has been tracked by different divisions within ADEC and different oil and gas field operators over the years. There has been limited use of consistent terminology or event identifiers within the available data sources. Information on early releases was captured via written logs and then entered many years later into electronic spreadsheets, which were then migrated into databases.

The following are discussed in greater detail within this section of the report.

- Current ADEC release reporting requirements and criteria with a description and comparison of historic ADEC regulatory requirements from the 1970s to 2007.
- Information sources consulted to respond to EPA's request, including BPXA's Tr@ction Database, ADEC historic spill tracking spreadsheet, and the current ADEC Statewide Oil and Hazardous Substance Spills Database.
- Information summarized from the varying sources of release data. This includes: an estimate of the approximate number of releases that occurred within the PBU; a summary list of products and/or wastes released, a summary of the types of response actions taken, and a discussion of the location information available on the releases.

Release-specific information is presented in tabular format in Appendix A.

Reportable releases

As indicated above, release data for the PBU is available from the early 1970s to the date of this report in 2007. The regulatory definition of what constitutes a "reportable release" has changed during this time period. Whether or not a release must be reported depends on the type of substance released, the release volume (including cumulative), the type of affected media (water or soil), and whether or not release containment existed.

During the 1970s, federal and state statutes and regulations were developed that addressed oil and hazardous substance releases to both water and land. It is unclear from the available records when reporting of releases was first required in Alaska, but appears to be in 1976 or 1977. Alaska Regulations (Alaska Administrative Code Supplement for 18 AAC 75.080) cites April 23, 1977, (in Register 62) as the date when any discharge of oil or a hazardous substance to land or water must be reported.

Hazardous substance identification and accompanying reporting was increased in later federal (e.g. CERCLA, RCRA) and state (18 AAC 75) statutes and regulations.

Current requirements for reporting releases are found in Alaska Statute AS 46.03 and Regulation 18 AAC 75.300. Reporting requirements were last substantially changed in 1992. Since 1992, reporting is required for any discharge or release of a hazardous substance other than oil, any discharge or release of oil to water, and any releases that cumulatively total over one gallon to land monthly (AAC 75.300). One reporting change in 1992 was that oil releases under one gallon in volume no longer had to be reported unless their cumulative total exceeded one gallon over a month. Prior to 1992, reporting was required for an oil release in any amount.

Reportable releases - criteria

For the purpose of this report, the following criteria are considered reportable releases within the PBU:

- Releases that are the responsibility of BPXA
- Releases recorded within the PBU in BPXA Tr@ction Database and ADEC Spill Tracking Systems
- Releases that satisfy current ADEC reporting requirements as described in 18 AAC 75.300
- Releases that have a recorded volume more than zero gallons

Information sources

The amount and quality of release records and the associated data have increased significantly since computerized record management systems became available in the 1980s. The following information sources have been consulted to provide the information requested in the Order:

- BPXA Tr@ction database - contains release information from 1971 to present
- ADEC Spill Tracking Excel Worksheets - contain tracking information on spills from 1971 to 1995
- ADEC Statewide Oil and Hazardous Substance Spills Database - contains tracking information on spills and releases from 1995 to present

In addition to the information sources listed above, ADEC databases used to track contaminated sites and leaking underground storage tanks (USTs) were reviewed and compared to obtain all readily available information. Data from these sources did not identify releases not already identified in the ADEC and BPXA release data.

The records maintained by ADEC and BPXA are not complete and have limited correlation. Upon evaluation of both the ADEC and BPXA spill data, discrepancies in data reporting were evident. In some instances, spills were reported in BPXA spill data but were not recorded in the ADEC data. The opposite was also observed. A majority of releases are reported in both the ADEC and BPXA spill reporting systems, but each has information on release incidents not captured in the other tracking systems. In addition,

different and inconsistent recording methods and nomenclature is used within systems and between systems. An evaluation and comparison of information in each of the tracking systems was performed to compile a list of all recorded releases identified in the available data sources. Information in each of these systems is described below.

A review of available records indicated that prior to the 1992 regulatory change, neither ADEC nor BPXA recorded any release volumes less than one gallon. Prior to the 1992 change in ADEC release reporting regulations, ADEC databases indicated 44 releases were of unknown volume. After 1992, there are no release volumes listed as "unknown." A review of information on releases with unknown volumes indicated that for 30 of the 44 events, a final report had been prepared or the released materials had been disposed of. The BPXA Tr@ction reported releases include specific volume information, and none of the records have volumes reported as "unknown."

BPXA Tr@ction Database

Information on releases and spills in the PBU were historically tracked by BPXA, its predecessors, and the working interest owners via various data management systems. These data sources have been compiled within the BPXA Tr@ction data management system to report, investigate, analyze, and document all health, safety, security, and environmental incidents. BPXA currently requires that any releases greater than zero, as well as near-miss releases, are documented within the Tr@ction database.

Table A-1 in Appendix A provides a comprehensive list of releases documented in BPXA's Tr@ction database from when reporting began (1971) to November 15, 2007. Specific information for each release, as requested in the Order, is provided in this table. Release events have been sorted by volume released from high to low to aid in the review of releases with the greatest potential for environmental impacts.

The Tr@ction data contains approximately 4,263 records of release events that occurred within the PBU. The uncertainty of the total release number is due to the possibility that some releases with unclear location information may have occurred in areas that may be determined to be outside the PBU. The Tr@ction database tracks information via a tracking key for each event. Table A-1 contains 136 events involving multiple substances, which accounts for the 4,399 rows of release information. Approximately 64 events involved no releases. Approximately 1/6th of releases (649) were less than 1 gallon, half (2,223) were less than 5 gallons, and two-thirds (2,625) were less than 10 gallons. About 12% (511) were over 100 gallons, 3% (116) were over 1,000 gallons, and less than 0.5% (18) were over 10,000 gallons. Most of the large events involved releases of seawater or produced water.

ADEC Spreadsheets and Statewide Oil and Hazardous Substance Spills Database

Release data is currently maintained by ADEC in two separate sources. Release records for the period from 1971 to 1995 are maintained in an electronic spreadsheet format. In 1995, ADEC developed and implemented use of the Statewide Oil and Hazardous Substance Spills Database to track releases (http://www.dec.state.ak.us/spar/perp/search/Search.asp). This database contains

records for releases which occurred from June 1995 to present. Data present within both ADEC sources could not easily be sorted to specifically identify only releases that occurred within the PBU. Release records for spills easily identified as non-PBU facilities have been removed for the purpose of the evaluation described herein. However, release event data that could not specifically be excluded due to uncertainty related to incomplete or non-specific location field data were left in the data set for conservancy. OASIS estimates the number of non-PBU sites within the ADEC event data includes between 100 to 200 release events. Additionally, while most release events recorded in the ADEC database are unique, some records have multiple entries (two to six) for some fields identified with the same release event. It is difficult, or impossible, to limit the data set to a single entry for PBU-only releases that are the specific responsibility of BPXA.

Table A-2 in Appendix A presents the information on spills recorded between 1971 to November 15, 2007 as recorded in both ADEC data sources. Few spills were recorded in the 1970s, never exceeding nine annually. The number of releases recorded averaged several hundred annually in the 1980s. Very few releases were recorded in the early 1990s; the reduction in the number of recorded releases was evident statewide and coincides with a change in ADEC release reporting regulations in 1992. After 1995, when ADEC began using its current database, annual numbers of releases averaged in the low hundreds. The changes in numbers may be due to a combination of factors: changes in reporting requirements, better awareness of those requirements, and improvements in recordkeeping systems.

The number of releases recorded in ADEC's data systems is generally higher than those in the BPXA Tr@ction database; however, Tr@ction has more releases recorded for the early 1992–1995 period. A detailed comparison was conducted of records in the two databases for the 1979–1989 period. Data for the entire reporting period (1971 to 2007) was not compared due to the magnitude of the effort and the uncertainty evident in the release data. An evaluation was also performed in the three primary data sources on all spills greater than 1,000 gallons due to significant environmental impact potential. The results of this comparison are described in Table 2-11. Most releases in Tr@ction appeared in ADEC's records for the period 1979–1989, particularly from 1986–1989 when 99% of spills in Tr@ction were also recorded by ADEC. Smaller spills were most likely not to be recorded in both databases; only one spill over 1,000 gallons appeared in Tr@ction but not in ADEC spill records during the 1984 to 1989 period, and only eight appeared for the entire 1971–1989 period.

A limited comparison between ADEC and BPXA databases of releases over 1,000 gallons between 1990 and 2007 is presented in Table 2-10. The data shows that 52 of 65 spills in BPXA's database were also in ADEC's database for this period. Ten of the 14 releases were not in ADEC's database because they involved the release of fresh water or sewage, which generally was not tracked in ADEC's spills database. ADEC regulates sewage treatment facilities through permits issued under wastewater regulations (18 AAC 72). Facility operators are required to report non-permitted releases

to ADEC on spill reporting forms in their permits. ADEC places information on any reported releases into the individual facility permit file records. Sewage releases are not tracked in ADEC's Spill Report Database or any other system. Operators clean up releases with limited or no ADEC oversight unless the release has potential to impact a sensitive resource. If ADEC determines follow-up is required, it is conducted by the wastewater program or spill response staff. ADEC doesn't issue any closure or completion documentation when a sewage release has been corrected.

TABLE 2-10. ADEC & BPXA RELEASE REPORTING COMPARISON (>1,000 GALLON EVENTS)

Date	Substance	Gallons Release	Also in ADEC Records?
January 5, 1990	Seawater	6,300	Y
January 12, 1990	Water	1,050	Y
May 11, 1990	Diesel	1,008	Y
May 29, 1990	Seawater	1,050	Y
December 24, 1990	Diesel	1,260	N
June 1, 1991	Produced Water	356,961	Y
January 6, 2000	Seawater	1,663	Y
March 13, 2000	Produced Water	1,000	Y
August 21, 2000	Crude Oil	30,027	Y
August 21, 2000	MEG	1,470	Y
December 16, 2000	Sewage	2,000	N
December 24, 2000	Diesel	1,512	Y
February 2, 2001	Seawater	1,008	Y
February 19, 2001	Seawater	4,5000	Y
February 20, 2001	Crude Oil	9,449	N
February 20, 2001	Methanol	2,100	Y
March 6, 2001	Drilling Mud	5,880	Y
June 2, 2001	Sewage	1,500	N
June 16, 2001	Water	11,000	N
September 3, 2001	Sewage	1,100	N
October 30, 2001	Hydrochloric Acid (HCL)	1,764	Y
December 15, 2001	Crude Oil	2,600	Y
April 29, 2002	Sewage	2,500	N
May 1, 2002	MEG	1,260	Y
May 9, 2002	Sewage	1,500	Y
May 28, 2002	Seawater	3,150	Y
May 29, 2002	Produced Water	4,469	Y
July 13, 2002	TEG	1,100	Y
July 28, 2002	MEG	1,000	Y
August 1, 2002	Produced Water	6,300	N
August 16, 2002	Methanol/ Water	2,520	Y
August 16, 2002	Seawater	1,050	Y
February 28, 2003	Diesel	3,576	Y
April 5, 2003	Sewage	4,000	N
May 20, 2003	Drilling Mud	2,100	Y

Date	Substance	Gallons Release	Also in ADEC Records?
May 25, 2003	Produced Water	1,680	Y
May 27, 2003	Produced Water	4,500	Y
May 27, 2003	Crude Oil	1,500	Y
November 14, 2003	Sewage	4,000	N
May 11, 2004	Seawater	2,100	N
June 18, 2004	Produced Water	28,350	Y
July 4, 2004	Sewage	5,000	N
August 30, 2004	Drilling Mud	1,134	Y
September 11, 2004	Seawater	1,260	Y
November 10, 2004	Sewage	1,000	Y
December 4, 2004	Produced Water	5,250	Y
December 20, 2004	Sewage	18,915	N
January 1, 2005	MEG	4,200	Y
February 17, 2005	Methanol/ Water	1,090	Y
April 12, 2005	Crude Oil	1,260	Y
April 17, 2005	Fresh Water	2,940	Y
June 3, 2005	Produced Water	4,600	Y
January 27, 2006	Methanol	2,514	Y
March 2, 2006	Crude Oil	201,000	Y
May 2, 2006	Produced Water	1,122	Y
May 24, 2006	Seawater	1,051	Y
August 6, 2006	Crude Oil	8,358	Y
August 7, 2006	Produced Water	1,000	Y
August 19, 2006	Seawater	8,694	Y
October 10, 2006	MEG	1,500	Y
December 19, 2006	Produced Water	255,151	Y
April 1, 2007	Fresh Water	1,260	N
April ,8 2007	Diesel	6,930	Y
May 26, 2007	Drilling Mud	2,100	Y
October 15, 2007	Methanol/ Water	1,260	Y

Note: * - Not determined

The number of spills that are recorded in the ADEC system dropped significantly in 1992 and stayed low until the middle of 1995. This drop in number of recorded releases was evident statewide. From 1991 to 1995, ADEC underwent two major reorganizations of their offices involved in spill oversight, which may explain the lack of records for this period. After 1995, when ADEC began using its current database, the annual number of release events recorded increased the first few years and then leveled off at a consistent rate involving between 100 and 300 release events per year.

Total number of Sites with Releases in the PBU

Similar information on releases in the PBU exists within the ADEC and BPXA data sources. The databases do not share any identification indexes for the same release

event. In order to determine if a release record in one database is unique or duplicated, a detailed record-by-record review between the two databases is required. Given the volume of unknown duplicated information in the different tracking databases and the difficulty in consolidating that information, it is impossible at present to provide an accurate number of unique release records, particularly by substance released or location.

However, it is possible to provide an estimate of the range of number of releases that have occurred. As the ADEC Spills Database and spill tracking sheets appear to include records of most events that are also tracked in Tr@ction, it provides an estimate of the number of spills: between 4,399 (the number in BPXA Tr@ction) and 6,411 (total in ADEC Spill Tracking Systems). The proportion of releases by size can be estimated by comparison to the evaluation of release volumes presented above for the BPXA Tr@ction data. Approximately half of the ADEC events can be expected to be 1 gallon or less in volume, two-thirds less than 10 gallons, and 10% over 100 gallons in volume. Given that information on major releases is more likely to be captured in both ADEC and BPXA tracking systems, the numbers for large releases recorded in Tr@ction should be close to the total for all tracking systems 2% (98) of 1,000–10,000 gallon releases and 18 releases over 10,000 gallons.

Table 2-11 shows the annual number of releases recorded in the ADEC and BPXA Tr@ction databases and the degree of duplication identified for the 1971-1989 period.

TABLE 2-11. SUMMARY OF ANNUAL PBU RELEASES

Year	Number of Releases Recorded by ADEC	Number of Releases Recorded by BPXA	# Releases in ADEC Tracking Systems also in BP Database	Total Releases
1971	1	1	0	2
1972	2	2	1	3
1973	3	0	0	3
1974	1	0	0	1
1975	4	1	1	4
1976	9	9	3	15
1977	3	7	2	8
1978	2	2	0	4
1979	0	10	0	10
1980	12	14	1	25
1981	159	24	15	168
1982	42	29	17	54
1983	153	25	22	156
1984	4	14	0	18
1985	129	21	13	137

Year	Number of Releases Recorded by ADEC	Number of Releases Recorded by BPXA	# Releases in ADEC Tracking Systems also in BP Database	Total Releases
1986	153	39	31	161
1987	207	81	80	208
1988	478	161	159	480
1989	649	208	208	649
1990	676	199	-	875
1991	728	182	-	910
1992	189	297	-	486
1993	0	282	-	282
1994	0	188	-	188
1995	103	133	-	236
1996	239	124	-	363
1997	174	97	-	271
1998	189	104	-	293
1999	154	126	-	280
2000	220	169	-	389
2001	249	268	-	517
2002	241	259	-	500
2003	222	262	-	484
2004	259	261	-	520
2005	236	245	-	481
2006	278	312	-	590
2007	243	243	-	486
Total	**6411**	**4399**		10810

Type of Products and/or Wastes Released

As noted above, the different spill tracking systems use inconsistent and different nomenclature for tracking information. Filtering and consolidating this information yields the list of substances released within the PBU. Note that the information provided only shows substances and not constituents. A constituent list would be much more extensive and is not included in the ADEC or BPXA spill databases. This information will be presented in Part II of the work plan that will address compounds of potential concern.

Table 2-12 presents the number of releases for each material as reported in BPXA's Tr@ction database for the period from 1971 to 2007. Diesel and crude oil accounted for almost half the releases, and 11 materials accounted for 95% of the releases (diesel,

crude, seawater, methanol, hydraulic fluid, ethylene glycol, corrosion inhibitor, lube oil, produced water, sewage, and drilling muds).

TABLE 2-12. NUMBER OF RELEASES IN BPXA DATABASE FOR EACH MATERIAL

Material	# Releases	Percent
Diesel	1,042	24%
Crude Oil	931	21%
Seawater	401	9%
Methanol	365	8%
Hydraulic Fluid	300	7%
MEG	232	5%
Corrosion Inhibitor	222	5%
Lube Oil	183	4%
Produced Water	182	4%
Sewage	128	3%
Drilling Mud	96	2%
Motor Oil	58	1%
Fresh Water	58	1%
Sulfuric Acid	34	1%
Transmission Fluid	27	1%
Propylene Glycol	20	0%
Methanol/ Water	16	0%
Natural Gas Liquid (NGL)	13	0%
Hydrochloric Acid (HCL)	12	0%
Methanol/ Water (50/50)	9	0%
Paint	9	0%
TEG	8	0%
Calcium Chloride	6	0%
Scale Inhibitor	6	0%
Schmoo-B-Gone	5	0%
Emulsion Breaker	4	0%
Silicon Defoamer	4	0%
Drag Reducing Agent (DRA)	3	0%
Methanol/ Diesel (50/50)	3	0%
Therminol	3	0%
Desolvit	3	0%
Arctic Pac	2	0%
Petroleum Solvent	2	0%
Turbo 32	2	0%
Sodium Bromide	2	0%
Mercury	2	0%

Material	# Releases	Percent
Calcium Carbonate	1	0%
Drilling Cement	1	0%
Biocide X150 (Glutaraldehyde)	1	0%
Developer/ Replenisher	1	0%
Champion 1999-126A	1	0%
Fixer/ Replenisher	1	0%

Table 2-13 summarizes the materials identified in ADEC spill records. The substances found are very similar to those identified in the BPXA database and presented in Table 2-12, but some differences are evident. BPXA and ADEC often use different nomenclatures for the same substances. Also, some additional substances appear in ADEC's list that may be incorrect as they are associated with releases which are currently included in the table but may not have occurred within the PBU. Due to this uncertainty, the ADEC list of substances does not show the number of releases of each material.

TABLE 2-13. SUBSTANCES IDENTIFIED IN ADEC SPILL RECORDS FOR PBU, 1972-2006

Material	Material	Material
Acid, Other	Ethyl Alcohol (Ethanol)	Process Water
Ammonia (Anhydrous)	Ethylene Glycol (Antifreeze)	Produced Water
Asphalt	Freon (All Types)	Propane (LPG)
Aviation Fuel	Gasoline	Propylene Glycol
Bases	Glycol, Other	Seawater
Biocide	Grease	Solvent
Calcium Chloride (Solid)	Halon	Source Water
Calcium Hypochlorite (Solid)	Hydraulic Oil	Sulfuric Acid
Caustic Soda	Hydrochloric Acid	Synthetic Oil
Corrosion Inhibitor	Hydrofluoric Acid	Therminol
Crude	Insecticide	Transformer Oil
Diesel	Kerosene	Transmission Oil
Drag Reducing Agent	Methyl Alcohol (Methanol)	Turbine Fuel
Drilling Muds	Naphtha	Unknown
Emulsion Breaker	Natural Gas	Used Oil (all types)
Engine Lube Oil	Natural Gas Liquids	Zinc Concentrate

Response Actions

The various databases provide summary descriptions of the response actions taken for each spill. Typically, information is provided that indicates actions were taken to adequately clean up the spill, particularly larger spills. ADEC's spill tracking sheets from 1971-1989 are the most incomplete; about 5% of ADEC records on spills during that period lack information on cleanup. Almost all cleanup actions involved removal. Removal methods included absorbents, chipping and scraping, excavation by shovel or equipment, and pumping and vacuuming. The ultimate disposal of removed materials depended on the type of substance removed and the available disposal options. These including recycling, disposal in an approved landfill, subsurface injection, incineration, pad spreading, interim containment, and combinations of different options. Ultimate

disposal of some released materials is not identified or is identified as unknown in the 1971-1989 ADEC spill tracking records; about 5% of ADEC records on spills during that period may lack clear information on disposal.

Map showing Release Locations

Releases at contaminated sites typically are mapped in the BPXA and ADEC project files. However, release records in the existing ADEC and BPXA sources do not have accompanying location information, geo-references, maps, or narratives. The location information for such releases is usually limited to the facility/site name or an area description, such as Pad or Drill Site identifier. The location of all PBU pads and facilities are depicted in Figure 1 of this report. The location of cleanup activities for active or recent spills and releases at SWMU and AOC sites identified by the Order are depicted in part two (Current Conditions Report) of this Work Plan.

2.6. Applicable Environmental Permits

The consent order requires a list, including performance period or expiration date, of all active or pending environmental permits and orders involving solid waste or water discharge, waste clean up, pit storage, and waste injection disposal wells applicable to the PBU. BPXA generated a comprehensive list of permits for the PBU, which includes information regarding the issuing agency as well as permit issue and expiration dates. The permits were sorted and grouped by type, and the relevant lists are provided in Appendix B. In the PBU, there are five water discharge (Appendix B-1), six solid waste (Appendix B-2), and eight underground injection permits (Appendix B-3). In addition, Appendix B-4 lists 66 permits categorized as “lease operations and land use” that, based on project name, have the potential to involve solid waste, water discharge, waste clean up, pit storage, and waste injection. Appendix B-5 lists the two Administrative Orders on Consent.

3. ENVIRONMENTAL AND REGIONAL SETTING

The environmental and regional setting is discussed in terms of physical environment (e.g., geology, climate), biological resources (e.g., vegetation, wildlife), and socioeconomics (e.g., economy, subsistence).

3.1. Physical Environment

The areal setting for the Prudhoe Bay facility (Site) is the Arctic Coastal Plain (ACP) on the North Slope of Alaska. The Site encompasses the coastal land from just west of the Kuparuk River eastward to the Sagavanirktok River. The Site is comprised of approximately 379-385 square miles[2].

The regional geologic and hydrogeologic characteristics discussed below are those that may potentially affect the soil, active-layer groundwater, surface water, and containment migration at the PBU Facility.

3.1.1. Geology

3.1.1.1. Physiography

The ACP is a treeless, poorly drained, periglacial environment with a layer of thick permafrost. The ACP was not glaciated, but marine transgressions occurred during higher sea levels as recently as 0.7-1.9 million years ago that reached far inland (Hopkins, 1967).

The Site is within the ACP physiographic province, which rises gradually from the Arctic Ocean and extends southward at approximately 10 feet per mile to the foothills of the northern edge of the Brooks Range. The terrain of the PBU area is referred to as "flat thaw-lakes plains," which is generally characterized as mostly flat and wet with numerous thaw-lakes, polygon- and non-patterned ground, and underlain by shallow permafrost3 (Walker et al., 1980:14; Walker, 1985:5). Topographic maps of the WOA (Figure 2) and the EOA (Figure 3) are provided separately due to the size of the Facility and complexity of surface topography.

Ice wedges, which produce the area's characteristic polygonal surface patterns, grow progressively as winter contraction fractures in the surface soils collect water during the brief summer thaw and then freeze in the winter. If this buried ice thaws, it causes rapid surface subsidence that appears as thermokarst troughs. As the ice wedges grow, the polygons develop and grow larger. Three types of patterned ground cover most of the ACP: low-centered polygons, high-centered polygons, and disjunct polygon rims. The most common type of polygon in the PBU area is low-centered polygons, which have wet centers and moist raised rims. High-centered polygons with relatively higher centers

[2] Approximately 6 square mile of the EOA are not included in the Prudhoe Bay facility description
[3] Permafrost is defined as ground that remains at a temperature below 32 degrees Fahrenheit (°F) (0 degrees Celsius [°C]) over a period of at least two years.

and the somewhat well-drained or "moist" tundra are less common in the PBU area (Walker, 1985:41).

3.1.1.2. Geologic History

The PBU area is bisected by the Barrow Arch geologic structure, which runs parallel to subparallel along the coast. The Barrow Arch was initiated during the mid-Cretaceous compression of the Arctic Alaska Plate. This regime was produced by the combined forces of terrain accretion at the southern margin of the Arctic Alaska Plate and rift-zone expansion in the marine basin bordering the plate to the north. The resulting deformation produced the Barrow Arch. The continuation of the Brooks Range Orogeny is supported by present day seismic activity and deformation of Quaternary sediments. The North Slope of Alaska has not experienced an earthquake exceeding a magnitude of 5.3 since 1968 (AEIC, 2006).

3.1.2. Stratigraphy

3.1.2.1. Pre-Quaternary Stratigraphy

Stratigraphy constitutes the framework for understanding structural geology, geoengineering properties, and hydrology, among other topics. The following section provides a description of regional rock stratigraphic units.

The geologic history of northern Alaska has resulted in four stratigraphic sequences. The sequences present beneath the ACP include two of these four: the Brookian and the Ellesmerian. The Brookian sequence includes the Tertiary Sagavanirktok formation (SF), which extends to approximately 2,000 feet below mean sea level (bmsl), and the Cretaceous Colville Group formations, which underly the Sagavanirktok formation and extend to approximately 2,500 feet bmsl. The Sagavanirktok formation consists of poorly consolidated shale and sandstone. The Colville Group formations include the Prince Creek, Schrager Bluff, and Seabee, formations consisting of non-marine and shallow marine shale and sandstone. The Ellesmerian sequence extends below the Brookian and includes the Jurassic Kingak Shale, consisting of marine shale, and the Triassic Shublik and the Pennsylvanian and Mississippian Lisburne Group formations, which are comprised of shelf sediments from a northern source (ADNR, 2004).

3.1.2.1.1. Brookian Sequence

South-dipping subduction of the part of the Arctic Alaska basin underlain by oceanic crust led to arc-continent collision accompanied by north-directed emplacement of thick stacks of far-traveled thrust sheets in Late Jurassic and Early Cretaceous time, forming the thickened crust of the ancestral Brooks Range. This thickening loaded the earth's crust north of the range and depressed it to form the Colville Basin, a classic foreland basin extending east-west along the length of the range. Sediments eroded from the Brooks Range thrust sheets poured into the Colville Basin, progressively filling it in by building a shelf platform from southwest to northeast and forming the Brookian

sequence. Brookian sediments ultimately spread out over the Barrow Arch and into fault-controlled basins of the Beaufort Sea, especially during Late Cretaceous and Tertiary time.

In general terms, the older, lower Brookian sequence sediments at any given location (such as seen in a wellbore) tend to consist of shales and sandstones deposited in water hundreds or thousands of feet deep. The rocks higher in the sequence typically consist of sandstones and shales associated with coastal plains, river deltas, or other shallow-water environments up on the shelf. This transition toward progressively shallower deposition through time demonstrates the progressive filling of the Colville Basin in the Brookian foreland. While the sediments filled the Colville Basin, the area of active sedimentation moved eastward. As a result, the Brookian rocks tend to become younger from west to east in the basin.

3.1.2.1.2. Ellesmerian Sequence

Early Ellesmerian sequence clastic sediments, eroded from uplifted Franklinian rocks in the landmass that lay mostly to the north of the modern Beaufort Sea coast, spread southward where they accumulated in coastal and marine settings of the so-called Arctic Alaska basin. This south-facing passive margin deposition is the essential characteristic of the Ellesmerian sequence, and it continued into the Early or Middle Jurassic time. Deposited in highly varied marine to non-marine settings over at least 150 million years, Ellesmerian strata constitute a diverse suite of clastic and carbonate formations, including prolific petroleum source rocks, excellent reservoirs, and strong seal units that collectively define a self-contained, world-class petroleum system. From a belt of maximum thickness that coincides with the Hanna Trough in the Chukchi Sea and the Meade and Ikpikpuk-Umiat sub-basins onshore, the Ellesmerian thins southward due to depositional distance from the source of the sediments. The Ellesmerian also thins northward due to a combination of depositional onlap against the terrestrial landmass and post-depositional uplift and erosion.

3.1.2.2. Quaternary Stratigraphy

The quaternary ages rocks of the Gubik Formation overlay the Sagavanirktok formation throughout the PBU region and consist of coastal marine sands and gravels interbedded with fluvial channel and deltaic sediments. These sediments were deposited during higher and lower Pleistocene sea-level stands starting at approximately 70,000 years ago. When the sea went down, streams and rivers deposited sediments as alluvial layers and deltas and wedges that thin towards the sea. When the sea rose, it deposited silts and clays, with some boulders carried by ice, to form wedges that thin towards land. This Pleistocene age formation covers Tertiary and Cretaceous bedrock, frequently exceeding 500 meters in thickness (Updike and Howland, 1979). The formation is overlain by silt and sandy silt deposits less than five meters thick.

3.1.3. Soil

The Site's soils have been described using two classification systems. Environmental professionals use the Unified Soil Classification System (USCS) and soil scientists use a taxonomic soil classification system.

3.1.3.1. Unified Soil Classification System

The USCS is a soil classification system used in engineering and geology disciplines to describe the texture and grain size of a soil (ASTM D 2487). This system can be applied to most unconsolidated materials, and is represented by a two-letter symbol. Table 3-1, taken from the American Society for Testing and Materials (ASTM) standard, outlines the USCS soil types.

TABLE 3-1. SUMMARY OF USCS SOIL TYPES

Major Divisions			Group Symbol	Typical Names
Course-Grained Soils More than 50% retained on the 0.075 mm (No. 4) sieve	Gravels 50% or more of course fraction retained on the 4.75 mm (No. 4) sieve	Clean Gravels	GW	Well-graded gravels and gravel-sand mixtures, little or no fines
			GP	Poorly graded gravels and gravel-sand mixtures, little or no fines
		Gravels with Fines	GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	Sands 50% or more of course fraction passes the 4.75 (No. 4) sieve	Clean Sands	SW	Well-graded sands and gravelly sands, little or no fines
			SP	Poorly graded sands and gravelly sands, little or no fines
		Sands with Fines	SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand-clay mixtures
Fine-Grained Soils More than 50% passes the 0.075 mm (No. 200) sieve	Silts and Clays Liquid Limit 50% or less		ML	Inorganic silts, very fine sands, rock four, silty or clayey fine sands
			CL	Inorganic clays of low to medium plasticity, gravelly/sandy/silty/lean clays
			OL	Organic silts and organic silty clays of low plasticity
	Silts and Clays Liquid Limit greater than 50%		MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts
			CH	Inorganic clays or high plasticity, fat clays
			OH	Organic clays of medium to high plasticity
Highly Organic Soils			PT	Peat, muck, and other highly organic soils
Prefix: G = Gravel, S = Sand, M = Silt, C = Clay, O = Organic Suffix: W = Well Graded, P = Poorly Graded, M = Silty, L = Clay, LL < 50%, H = Clay, LL > 50%				

3.1.3.2. Soil Distribution

Figure 4 shows the distribution of soil types (based on the USCS classification system) across the Site. The soil types shown in the figure represent the soil type that occurs at the upper surface of the mineral soil. This information was compiled from the following sources; Montgomery Watson (1994) and OASIS (2002, 2002a, 2003, 2003a, 2004, 2004a, 2005, 2006, 2006a-d). Updike and Howlands (1979) also mapped the surficial geology of the Prudhoe Bay oilfield. The description and distribution of their map units are summarized below.

Upland tundra

The upland tundra unit is the oldest unit, related to the original Quaternary marine coastal sedimentation, and forms an unbounded upland surface with an average slope of about two to four meters toward the north or northeast. This unconsolidated unstratified sediment consists of silt (ML), sand (SM or SW), and gravel (GP or GW). Except for the upper one-to-two meters, the upland tundra is perennially frozen and bonded by interstitial ice. The upper one-to-two meters (active layer) thaws and expands during the summer months. During winter, extreme heat loss from this layer causes it to contract, which results in polygonal cracking of the ground from below this layer to the surface. The upland tundra unit is generally covered with a 0.2- to 1-meter thick organic mat.

Fluvial deposits

Fluvial (stream) deposits originate from three main drainages to the south of the ACP (Kuparuk, Sagavanirktok, and Putuligayuk rivers) and surface runoff of the active layer.

Active floodplains consist primarily of deposits of sand and gravel with minor amounts of silt (SM, SW, GP, or GW), which are redistributed during spring and summer floods. Inactive floodplain deposits are similar to those in active floodplains except that a thin layer (less than one meter thick) of silt has accumulated, which supports vegetation. Both the Sagavanirktok and Kuparuk rivers have broad and braided floodplains. The Putuligayuk River has meandering channel morphology with channel deposits similar to the Sagavanirktok and Kuparuk rivers.

Fluvial terrace deposits are located above the active floodplains. Both the Sagavanirktok and Kuparuk rivers have a low fluvial terrace about two to three meters above the active floodplain, the undisturbed parts of which have well-developed low-center ice-wedge polygons. The terrace of these rivers is bounded below by well-defined scarps descending to the present floodplain and above by scarps two to five meters high. Portions of all three drainages lack ice-wedge polygons, but have visible meander scars on the terrace surface. In these areas, the silt layer (ML) is thin (1.0 to 1.5 meters thick) but continuous. Along the Sagavanirktok River, a second upper fluvial terrace deposit is present, which follows the floodplain in the south but diverges toward the northeast in its lower 10 kilometers. This seems to indicate that the river eroded its channel during the Holocene period and shifted westward.

Thermokarst can result in stream channel deposits. Such deposits are present in areas where ice-wedge polygons are in the advanced stages of development, where a trough forms over the ice wedge. Thermokarst streams may flood polygons or connect thermokarst lakes. These channels are typically less than 2 meters deep and less than 10 meters wide. Sediment transport is limited but some segments of channel have sandy gravel exposed and in transport but this material is likely locally derived from thawing of the underlying sediment. Heat transfer to the adjacent permafrost beneath the stream channels causes the thawing of the ground ice and general lowering of these surfaces.

Lacustrine deposits

Shallow perennial lakes are a prominent feature on the ACP and play an important role in the surface dynamics on the terrain. These lakes originated from the formation of multiple low centered polygons, which get flooded and then merge to form a progressively larger lake. Regardless of depth, the water serves as a heat source, promoting thaw of the underlying permafrost. Wind-induced lake currents, thermal erosion, and sediment transport gradually modify the lake outline into an elliptical or quadrilateral shape. Wind-induced lake currents usually transport a mixture of silts (ML), fine sand (SP), and organic matter (rarely gravel). Organic biota in the lakes contributes debris to the bottom sediments.

Large (over 0.50 square kilometers [km^2]) and intermediate sized lakes (0.15-0.50 km^2) typically have silt/sand accumulations of up to five to eight meters as well as extensive reworking. Lacustrine deposits are usually thawed to a depth of up to five meters in midwinter; this thaw bulb may still be high above the perennially frozen gravels.

Partially drained lakes may have pronounced polygonal ridges. If they do, the underlying sediment will be the same as the upland tundra unit except that the active layer is thicker due to the presence of surface water in the summer and fall. If polygons are absent or subdued, several meters of silt that have been affected by thaw lake activity overlay the gravels, and massive ground ice is absent or discontinuous in the upper five to ten meters.

Drained lakes contain lacustrine deposits that have been exposed to the arctic climate throughout the year. The basins of these lakes may be up to one meter below the surface of the surrounding tundra surface and may contain thermal contraction cracks and remnants of former ice-wedge polygons. The permafrost table is either static or has prograded.

Deposits of former strandlines are visible as subtle terraces with narrow treads 10 to 20 meters wide between scarps. Strandlines may have active young polygons with low rims, open thermal cracks, and some incomplete polygon development.

Marine Shorelines

The beach in the PBU area extends nearly uninterrupted between river deltas and is comprised of unvegetated sandy gravel (GP or GW) with minor silt (ML). The gradually-sloping beach is between two and ten meters wide. On the landward side, a scarp one to three meters high is cut into the tundra, silt, and sometimes the underlying gravels. During winter, the broken sea ice shoves against the coast. Polygonal cells of tundra are angled toward the beach and upland polygons are high centered due to the thawing of the underlying ice-wedges. Sand and gravel bars may form across small stream outlets.

Active delta

The braided distributary drainages of the Kuparuk and Sagavanirktok rivers continually change position and are trending westward. Coarse sand and gravel is deposited in the lower braided drainage whereas fine sand and silt are deposited in the deltas.

Sediments are redistributed during periods of increased river discharge or storm surges and form subsequently subaerial segments of active deltas. Inactive parts of the delta stand about 1.5 meters above the active areas and may be from periods of more active discharge and silt and sand load in transport. Thaw bulbs exist below much of the delta; therefore, the permafrost table is deep and ice-wedge polygons are absent.

Eolian dunes

Windblown sand and silt accumulates to depths exceeding 10 meters on the stable surfaces of the deltas, floodplains, river terraces, and adjacent uplands of the Sagavanirktok and Kuparuk rivers. These sediments form eolian dunes, of which the active ones are typically located directly west of the sediment source area (due to the predominantly easterly winds). The relief of the active dunes is typically two meters or less above the adjacent troughs. The crests of some longitudinal dunes exceed ten meters in length. The active dunes are seasonally frozen and contain interstitial ice during winter and spring. Depth to permafrost is unknown. Inactive, or stabilized, dunes are compositionally identical to active ones except that they are covered by vegetation and their form is more subdued. Within areas of active and inactive dunes, deflation basins are often found. These unvegetated and wind-scoured depressions are filled with silt and sand, and in the deeper basins, fine gravels. Deflation basins are typically less than 100 meters long but can exceed 600 meters.

Pingos

Pingos are intrapermafrost features that are formed when a saturated zone of unfrozen permeable sediments begin to freeze downward from the ground surface. Within the Site, pingos are generally found in upland tundra deposits and partially and fully drained lacustrine deposits and rise to about nine meters in height. Pingos vary from 50 to 600 meters in length and 30 to 280 meters in width.

3.1.3.3. Soil Taxonomy in the ACP

Most of the ACP has hydric (wet) soils as a result of shallow permafrost and seasonal flooding. Saturated soils above the permafrost layer during the growing season result in anaerobic (no oxygen) conditions which favor the growth of wetland vegetation. Anaerobic conditions and low temperatures also impede decomposition of organic material, resulting in the accumulation of plant material as peat or muck. Soils are mostly acidic across the ACP except in the area around the Sagavanirktok River Delta where alkaline silt (loess) is blown inland from the delta by prevailing northeast winds, creating alkaline soils (Walker, 1985:119).

Four soil orders are found in and around the Site: Histosols, Entisols, Inceptisols, and Mollisols. Histosols, including Fibrists and Saprists, contain organic material in the top 0.4 meters of the soil profile. Entisols, including Psamments and Orthents, are poorly developed primarily mineral soils. Inceptisols, including Aquepts, are mineral soils that have horizons with distinctive chemical and physical characteristics that are found in floodplains and outwash plains. Mollisols, including Borolls and Aquolls, are dark base-

saturated mineral soils (Rieger et al., 1979). Soil orders form the basis for soil associations, of which there are four in and around the Site. The soil associations are described below.

3.1.3.4. Soil Properties

Physical soil properties dictate stability, active-layer water and contaminant migration, seasonal soil moisture phase, depth to permafrost, degradation of organic contaminants, and selection of suitable remedial measures, as well as a host of other physical and chemical interactions. It should be noted that seasonal climate changes can have a significant effect on the soil properties described below. Due to the extent of shallow permafrost that permeates the PBU Facility, the reported soil parameter values presented herein are related to seasonally affected soils generally within six to ten feet of ground surface for non-frozen soils unless otherwise specified. Soil properties are presented herein are included to meet specific requirements identified in the EPA Administrative Order.

A number of studies have been completed within the PBU Facility or otherwise nearby on the North Slope to measure several of the parameters requested for gravel pad soils. Fewer studies have been completed to obtain this information from native North Slope soils. Data gaps are present for both native soils and gravel pad soils. For parameters where studies have not been performed, the data gaps have been filled using text-book values based on the well defined soil types in the near surface soils of the PBU Facility.

3.1.3.4.1. Native Soil

Hydraulic Conductivity

Site-specific hydraulic conductivity data for soils in the Prudhoe Bay area were not readily available. As noted above, the Prudhoe Bay soils are predominantly silty sand and sandy silt with minor gravel and peat. The tundra mat, which covers much of the soils, is very similar to peat and would likely have a similar hydraulic conductivity. Fetter (1994) and Bear (1972) list the hydraulic conductivities of the above soil types as:

- Silt and sandy silt = 10^{-6} to 10^{-4} cm/sec
- Silty sand and fine sand = 10^{-5} to 10^{-3} cm/sec
- Well sorted gravel = 10^{-2} to 1 cm/sec
- Peat = 10^{-3} to 10^{-2} cm/sec

Bulk Density

Bulk densities of soils within the Site are presented from a study of engineering soil properties conducted within Deadhorse, Alaska (R&M, 1972). An average dry bulk density for each of the soil types sampled is shown below.

- Silty gravel (GM) – 126.7 lb/ft^3
- Silt and sandy silt (ML) – 45.2 lb/ft^3
- Silty sand (SM) – 91.2 lb/ft^3

- Organic Silt (OL) – 35.1 lb/ft^3
- Organic Clay (OH) – 32.8 lb/ft^3

The study did not include peat samples, but Brady (1990) lists the bulk density of surface peat as ranging from 12.5 to 17 lb/ft^3.

Porosity

Porosity values presented herein were calculated from 1972 specific gravity, bulk density, and moisture content data published for the Prudhoe Bay Pipeline Test Site in Deadhorse (R&M, 1972). The data used to calculate the porosity are taken from thawed cores of frozen soil, so the calculated values are only an approximation of in-situ values. Based on this limitation, the average porosity of each of the soil types sampled is shown below.

- Silty gravel (GM) – 23.7%
- Silty sand (SM) – 36.7%
- Silt and sandy silt (ML) – 61.1%
- Organic Silt (OL) – 66.8%
- Organic Clay (OH) – 65.4%

The study did not include any peat samples, but Watts (1997) lists the representative porosity of peat as 92%.

Cation Exchange Capacity (CEC)

Site-specific cation exchange capacities (CEC) were not available from previous studies conducted in the PBU Facility. Brady (1990) lists CECs for several soil taxonomic orders. The CECs for the orders present in the PBU Facility are shown below.

- Histosols (highly organic soil) – 128 centimoles of positive charge per kilogram of soil ($cmol_c$/kg)
- Entisols – 11.6 $cmol_c$/kg
- Inceptisols – 14.6 $cmol_c$/kg
- Mollisols – 18.7 $cmol_c$/kg

Brady (1990) also lists CECs for several soil types based on grain size. The average CECs for the soil types present in the PBU are shown below.

- Sand – 2.5 $cmol_c$/kg
- Sandy loam (silty sand with clay) – 5.5 $cmol_c$/kg
- Silt loam (silt and sandy silt with clay) – 19 $cmol_c$/kg

Soil Organic Matter Content

Percent organic matter content was determined based on the 1972 Prudhoe Bay Pipeline Test Site study (R&M, 1972), which lists the percent organic matter in the following soil types.

- Silty sand (SM) – 1.6%

- Silt and sandy silt (ML) – 9.3%
- Organic Silt (OL) – 19.7%
- Organic Clay (OH) – 31.1%

No other data were found regarding organic matter content of the Prudhoe Bay area.

Soil pH

Soil pH values are available for a spill area near the WOA P Pad (OASIS, 2002b). The pH results are from confirmation samples collected after impacted soil had been removed. No note was made regarding the soil type sampled, but other soils in this area are sandy silts. These samples may be a combination of surface organics and sandy silt. The pH values range from 6.31 to 7.60 with an average of 6.75.

Particle Size Distribution

The native soil in the PBU is comprised of silt (ML), sandy silt (ML), silty sand (SM), sand, sand with gravel (SW), and silty or sandy gravel (GP, GM). The above soil types are based on estimates made by geologists during environmental drilling operations. Sieve analyses are available from the Prudhoe Bay Pipeline Test Site (R&M, 1972). The soil types at this site consist of organic clay (OH), organic silt (OL), silt (ML), silty sand (SM), and silty gravel (GM). The particle size distribution for these soils is shown in Table 3-2.

TABLE 3-2. PARTICLE SIZE DISTRIBUTION OF NATIVE SOIL, PBU AREA

Soil type	Symbol	Average Depth (ft)	Sieve Size					
			1.0 inch	¾ inch	No. 4	No. 10	No. 40	No. 200
Organic Clay	OH	2.5	100	100	99	98	96	77
Organic Silt	OL	1	100	100	100	100	97	77
Silt and Sandy Silt	ML	2.5	100	100	99	99	96	66
Sand and Silty Sand	SM	9	100	98	90	88	83	25
Silty Gravel	GM	7.5	100	90	45	36	31	15

Moisture Content

Average soil moisture contents for each native soil type presented below are based on total solids data from samples collected for several site investigations conducted at numerous locations across the PBU (OASIS, 2002, 2005, 2006).

- Sand with gravel – 18.7%
- Silty sand – 41.3%
- Silt and sandy silt – 55.5%
- Peat – 48.3%

Soil Stratification

The soil stratification generally consists of surface tundra underlain by silty sand and sandy silt which in turn may be underlain by silt or sand with minor gravel in the upland tundra areas. Sandy gravel and gravelly sand underlie the river channels and the silt and sand in the delta regions (see Soil Distribution - Section 2.3.2.2). Figure 5 shows a schematic cross-section of shallow soil stratification in the PBU Facility.

Mineral Content

No data have been found regarding the mineralogy of the Prudhoe Bay soils.

3.1.3.4.2. Pad Gravel

There are seven active onshore gravel mine sites in the various North Slope oil fields. Three of these sites are located within the Prudhoe Bay facility and are believed to be the source of materials used to construct pads and roads. The Duck Island gravel mine site is in the Sagavanirktok River floodplain, approximately one mile east of Drill Site 9 (DS-9). The Put River 23 gravel mine site is southeast of the Putuliqavuk River, approximately one mile south of Prudhoe Bay in the EOA. The Kuparuk Dead Arm mine site is within the Kuparuk River floodplain just north of WOA M Pad. There is also a sand mine site along the drill site access road to EOA DS L-4 (the DS L-4 Sand Site).

Hydraulic Conductivity

Two references were found for gravel pad hydraulic conductivities. The hydraulic conductivity of the gravel pad was estimated at $7x10^{-4}$ centimeters per second (cm/sec) at the Crude Oil Topping Unit in the EOA (CH2M Hill, 1993). An intrinsic remediation study of the 100% Pad in Deadhorse (Geosphere, 1997) estimated the hydraulic conductivity in the pad soils to be $3x10^{-2}$ cm/sec. No other hydraulic conductivity data were found regarding Prudhoe Bay pad gravel. These values are more conservative or in-line with the text-book values specified above for native soils based on soil type.

Bulk Density

Bulk densities of Prudhoe Bay pad gravel were found for the Put River 23 and Put River 27 mine sites (ADOT, 1984) and for the COTU gravel pad (CH2M Hill, 1993):

- Put 23 – 138.3 lb/ft^3
- Put 27 – 131.8 lb/ft^3
- COTU – 132.9 lb/ft^3

These values are comparable to text-book values for silty gravels.

Porosity

Only one reference was found regarding gravel pad porosities. Geosphere (1997) notes that the porosity for the North Slope gravel pads range from approximately 23 to 35 percent. R&M (1972) also gives void ratios for silty gravels (presumably native gravels). The porosity of these gravels, calculated from bulk density, moisture content, and specific gravity, is 23.7 percent. Again, the data used to calculate the porosity are taken

from thawed cores of frozen soil, so the calculated values are only an approximation of in-situ values.

Cation Exchange Capacity

OASIS was unable to find any data for cation exchange capacities of gravelly soils. It is likely that pad gravel would have a low CEC (<2.5 cmol/kg) due to the low clay and organic content of the soil.

Soil Organic Matter Content

Gravel pad samples from the Tuboscope site (OASIS, 2002c) and from the Frontier Rock and Sand Pad in Deadhorse (BNCI and OASIS, 2005) were analyzed for total organic carbon (TOC). The average TOC value for gravel pad samples at the Tuboscope site is 3,632 mg/kg, or 0.36 percent. Only one gravel pad sample at the Frontier pad site was analyzed for TOC with a result of 6,100 mg/kg or 0.61%.

Soil pH

No soil pH values were found for gravel pads at the Site.

Particle Size Distribution

The gravel pads at the Site are comprised of sandy gravels and gravelly sands with minor silt contents. Grain size analysis results for two gravel mines (ADOT, 1984) and three PBU gravel pads (OASIS, 2003, 2003a, 2004) are shown in Table 3-3.

TABLE 3-3. PARTICLE SIZE DISTRIBUTION OF GRAVEL PADS, PBU AREA

Location	Symbol	Sieve Size						
		1.5-inch	1.0-inch	¾-inch	No. 4	No. 10	No. 40	No. 200
Put River 23	GW	100	99	95	47	29	18	4
Put River 27	GW	100	99	96	43	25	14	3
West Kuparuk State 3-11-11	GW	99	93	86	39	26	12	1
Highland State No. 1	GW/SM	98	98	93	47	32	19	4
Northwest Eileen #1 & #2	GP	95	91	81	33	20	12	1

Moisture Content

Soil moisture content data for the gravel pads was calculated from total solid results from site investigation samples (OASIS, 2002, 2002c, 2004a, 2005, 2005a, 2006, and 2006a-d). The average soil moisture of the PBU gravel pads is 7.4 percent with a range of 3 to 27.3 percent. This value agrees with Geosphere (1997) who indicate that the average moisture content for the gravel pads ranges from 5 to 16 percent.

Soil Stratification

The gravel pads range from sandy gravel to gravelly sand with up to 20% silt (Geosphere, 1997) and generally overly tundra soils. The pads are occasionally

stratified, containing a layer of slightly different lithology (i.e., sandy gravel with a layer of sand or gravelly sand in the middle of the pad).

Mineral Content

No data were found regarding the mineralogy of the gravel pads at the Site.

3.1.4. Permafrost

Permafrost is continuous throughout the Site. Permafrost is believed to be present to depths of approximately 2,200 ft beneath the ACP (Rawlinson, 1983:4-7). Permafrost strongly affects hydrology, erosion, vegetation, and human activities. It limits the movement of ground water and the rooting depth of plants (USGCRP, 2003). The development of the active-layer (seasonal thaw) and permafrost temperatures during the summer are influenced by the length of the thaw season and summer air temperature. Many factors such as wind, ground surface morphology, and vegetation and snow cover (specifically the density and structure) affect permafrost temperatures during the winter (eight to nine months) (USGCRP, 2003). Seasonal thawing over continuous permafrost saturates the surface layer, in which pools of meltwater accumulate. These pools are conducive to wetland and tundra ecosystems and peat formation (USGCRP, 2003). The depth of seasonal thaw varies with specific soil conditions, but in undisturbed dry areas on the ACP it is generally about one to two ft and rarely exceeds 3.5 ft in wet soils (Rawlinson, 1983:4-7).

Changes in surface conditions, such as disruption of the insulating organic mat or impoundment of surface water, can cause the surface to settle and create thermokarst, which is uneven surface topography that includes pits, troughs, mounds, and depressions (National Research Council, 2003). Fracturing of permafrost is a normal occurrence in winter when the ground becomes so cold that it shrinks by contraction. During the spring, these fractures fill with water and grow into ice wedges. Ice wedges, which produce the area's characteristic polygonal surface patterns, grow progressively as winter contraction fractures in the surface soils collect water during the brief summer thaw and then freeze in the winter. If this buried ice thaws, it causes rapid surface subsidence, which appears as thermokarst troughs. As the ice wedges grow, the polygons develop and grow larger.

Thaw lakes are formed by localized thawing of the upper permafrost by ponded water and range in depth from less than 3 to 20 ft (USACE and ERT, 1984:3-38). The thaw-lake cycle modeled for the ACP involves the growth, drainage of, and then recreation of new thaw lakes (Britton, 1966; Billings & Peterson, 1980; Hopkins, 1949 in Frohn et al. 2004.). This cycle begins with the formation of ice wedges, which raise the surface and allow the development of new thermokarst into which water may accumulate. When water collects over these low centered polygons, a lake is formed. Water absorbs heat and causes the thawing of the ice-rich permafrost beneath the lake. A thaw bulb then develops under the deep water and the thaw lakes expand laterally through both mechanical and thermal erosion. Thaw bulbs can also be found beneath river channels

and in areas disturbed by human activities (Rawlinson, 1983:4-7). Thaw bulbs areas are susceptible to the effects of frost heave and frost jacking on engineered facilities. The cycle continues with the draining (partial or complete) of the lake after which vegetation and organic matter begins to accumulate. This organic matter provides insulation and allows the aggradation of permafrost into the thawed substrate below the lake basin. The insulation promotes the growth of ice-wedges, and the cycle begins again.

3.1.4.1. Assessment of Impacts on Permafrost Conditions

Permafrost is important primarily because its groundwater generally occurs as ice, often in massive forms. If the ice melts, the ground surface can subside and become unstable. Thus permafrost poses special problems for the development of industrial infrastructure and the preservation of natural systems (National Research Council, 2003). To maintain permafrost, activities on the tundra must be controlled carefully, and buildings, roads, and other structures must be designed to avoid thawing their own foundations.

Roadways, heated buildings, or pipelines that are not sufficiently insulated from the permafrost can cause thawing of the underlying permafrost, resulting in thermokarst. Early gravel roads constructed on the North Slope were laid of gravel of insufficient depth (three feet), which led to thawing of the permafrost and the roads became unusable. To prevent thermokarst, the gravel placed for roads must be thicker than the depth of thaw. Current roads are constructed on at least five feet of gravel. Heated buildings placed directly on the gravel, as opposed to being elevated on pilings, result in a thaw basin beneath the gravel footprint (National Research Council, 2003). Buried pipelines transmit heat to the permafrost, which causes differential settlement. Warm production wells can cause the thawing of an annular zones, or chimneys in the surrounding permafrost. A shallow lake that is deepened for winter water supply (i.e., at Kuparuk) will generally continue to naturally deepen from thaw settlement as the thawed basin increases in size.

3.1.5. Hydrology

The arctic hydrologic environment is influenced by severe climate, seasonal frost and associated permafrost, and flat topography. The severe arctic climate, which includes below-freezing temperatures throughout most of the year and continuous permafrost, causes wide fluctuations in runoff and stream flow. Hydrologic balance on the ACP is influenced by climatic factors such as snowmelt, ground blizzards, and low annual rainfall.

3.1.5.1. Surface Water

Surface water in the ACP originates from headwater tributaries of the Brooks Range, the Arctic Foothills, precipitation, and from stored water in lakes and wetlands along the ACP. Streams and rivers on the ACP area are frozen for seven to eight months of the year (Selkregg, 1975:90). Streams originating in the Brooks Range typically have larger watersheds, such as the Sagavanirktok River, where flow may be derived from a

combination of glacier-fed tributaries, surface runoff, groundwater, and springs. Streams originating in the foothills of the Brooks Range or on the ACP typically have smaller watersheds where flow is generated primarily by the melting of snow and ice, with little or no input from groundwater sources due to continuous permafrost (USACE, Alaska, 1980:F-1). Thaw lakes are often used as a source of freshwater for ice road construction.

The presence of shallow permafrost limits the infiltration of water through the soil, and a perched water table within the active layer develops. Surface water flow is generated when the suprapermafrost (above the permafrost) water table rises above the ground surface. Saturation of the active layer and filling of depressions in the ground surface must occur before surface runoff can begin.

The principal drainage basins in the PBU area from west to east include the Kuparuk, Putuligayuk, and Sagavanirktok Rivers. Smaller drainages within the PBU area include Fawn Creek, located between the Kuparuk and Putuligayuk Rivers, and an unnamed creek west of the Shaviovik River. A discussion of the watershed, stream flow, and water quality characteristics for the individual rivers follows.

The Kuparuk River originates in the foothills of the Brooks Range and drains an area of 3,130 square miles (8,107 km2). Flow in this river typically peaks in early June during breakup (Scott, 1978:6-7). Mean monthly flows for the gauged basin area range from approximately two cubic ft per second (cfs) (0.1 cubic m per second [m3/s]) in late winter (February through April) to approximately 11,056 cfs (313 m3/s) in June.

The Putuligayuk River is a low-gradient, meandering river that has bed material consisting of fine gravel and stream banks of cohesive silt and clay with soil development overlying fine gravel (Scott, 1978:7). Stream flow measurements since 1970 indicate that the Putuligayuk River generally peaks rapidly, rising from near zero to peak flow during a one to two week period in early June and falling continuously to low summer levels in about the same amount of time. Mean monthly flows range from four cfs (0.1 m3/s) in May to a maximum of 694 cfs (20 m3/s) in June. Flows rapidly drop in July and reach zero by November. Just downstream of the Spine Road, the river is crossed by a pipeline bridge. Scour has been monitored over the life of the pipeline bridge, and the use of grout bags and rock gabions has minimized losses to the bank from scour during high water periods.

The Sagavanirktok River originates in the foothills of the Brooks Range and drains an area of approximately 1,860 square miles. Stream flow measurements since 1982 indicate that the Sagavanirktok River generally rises from near zero flow in December–January, increases to 1,000 m^3/s in May, and then continues to rise to 7,000–9,000 m^3/s during the summer months. Flow decreases in the fall, then drops to near zero again in the winter (USGS, 2006).

Fawn Creek is a tundra stream/lake complex about 12 miles in length that runs north from D Pad Lake through an extensive wetlands complex to the Beaufort Sea. This stream is crossed by five oil field roads. The Fawn Creek complex appears to be too

shallow to overwinter fish, with the exception of the D Pad Lake (Morris and Winters, 2004).

Lakes less than 6 to 10 ft deep freeze to the bottom in the winter, while the bottom layer of deeper lakes remains unfrozen throughout the year. Localized thawing of the upper permafrost can be caused by removal of the organic cover. A thaw lake may develop if the disturbed area collects surface water. The body of water expands by thawing permafrost below the water level and undercutting the surrounding tundra. If, however, initial shallow ponds are colonized by vegetation, the thermokarst process is halted (Shur and Jorgenson, 2004). The position of the lakes generally is perpendicular to the dominant wind direction because the wind increases undercutting of the soil. Continuation of these processes results in the lake shorelines migrating in the direction of prevailing winds (USACE and ERT, 1984:3-38).

Extensive flooding is typically associated with rivers and streams on the ACP during spring breakup between May and early July, with peak flow conditions in the first week of June. Breakup progresses rapidly, and by early July, 60 to 80 percent of the total annual discharge of most rivers has occurred. Ice jams and ice that is frozen to the channel bed increase the height of the floodwater during breakup in downstream river areas. Flooding subsides as the ice is broken up and melts or is carried downstream and out to sea.

Observations of water levels in rivers rising during storms have been made by both Barrow and Nuiqsut residents. A Barrow whaling captain reported that the biggest storms occur in September, causing the water levels in the rivers to rise (Pers. Comm., Barrow Whaling Captains Meeting, August 26 and 27, 1996). A Nuiqsut whaling captain reported how rising marine water levels during a storm surge can force water over the top of sea ice and flood up the Colville River drainage to a distance of 18 miles (A. Ahkiviana - Pers. Comm., Nuiqsut Whaling Captains Meeting, August 13, 1996:8).

River sediment output peaks with the highest river flows during June when more than 50% of the annual sediment discharge usually occurs in rivers on the Arctic Coastal Plain (Selkregg, 1975:96). Undercutting of frozen stream banks by thawing and erosion is common in arctic streams, particularly at locations of sustained high flow. The increased strength provided by permafrost in stream banks permits greater undercutting at the base of the thawed layer, which in turn produces larger slump blocks (Scott, 1978:9-11). The stream bank material becomes an important source of sediments transported by rivers.

3.1.5.2. Groundwater

Groundwater hydrology within the ACP is affected by climate, the presence of permafrost, and the proximity to large surface water bodies (Sloan, 1987:241). Surface water is frozen most of the year, which limits recharge to groundwater. Additionally, permafrost acts as a barrier which restricts groundwater flow.

The seasonal thaw zone, referred to as the “active-layer,” ranges from approximately 0.5 to six feet deep in the PBU. It is within this limited active layer that suprapermafrost

groundwater will seasonally be present. Suprapermafrost groundwater is defined by ADEC as "seasonal groundwater present beneath the surface of the soil above the permafrost layer" (ADEC, 1999). Suprapermafrost groundwater is commonly termed "active-layer groundwater" which generally thaws throughout the summer season to a depth of approximately 18 inches below ground surface (bgs). The thickness of this active-layer water varies based on surface cover or disturbance. Organic material present in the tundra surface acts as an insulator for the permafrost and limits seasonal thawing. Beneath standing and flowing water bodies, the depth of thawing is generally the greatest and may extend to depths greater than 70 feet bgs. Beneath and around sand dunes, where vegetation is sparse, the permafrost may be as deep as six to ten feet bgs. Gravel pads and roads in the PBU are designed to prevent the thaw from reaching the permafrost and are more than five feet thick. Pads and roads will typically thaw to a depth of approximately five feet by the end of the summer (Montgomery Watson, 2000).

In the upland tundra areas, active layer water generally extends from the surface or near surface to the permafrost. In gravel pads, the top of the active layer may range from approximately one to four or five feet bgs (Montgomery Watson, 2000; OASIS, 2006d). Groundwater is also present under rivers and deep lakes that do not freeze to the bottom during the winter months. Snowmelt provides the major source for recharge to the shallow groundwater sources below lakes and streams. Figure 5 is a schematic cross section showing the permafrost surface and active layer water beneath a river, undisturbed tundra, a gravel pad from an exploration well, and a sand dune.

Groundwater has been also found beneath permafrost (subpermafrost groundwater) under most oil and gas units on the North Slope. Subpermafrost groundwater may extend within bedrock to depths of greater than 2,000 ft bgs. Subpermafrost groundwater sources, other than springs, are generally too brackish to be considered for water supply use (Sloan, 1987:241-243). Additionally, subpermafrost groundwater does not readily recharge.

Drinking Water Sources

Drinking water used at the Prudhoe Bay facility comes from surface water sources. The facility location and total human population supported by each source is provided below:

- BP Exploration CWTF (population supported: 480);
- BP Prudhoe Bay Opt. Center (population supported: 1,500); and
- North Slope Borough SA10 (population supported: 70).

All drinking water sources support a non-resident population. In accordance with Attachment D of the Order, the exact location of the drinking water sources is not provided in this report.

3.1.6. Regional Climatology

The PBU area is located in the Alaska arctic polar climate region, which is characterized by persistent wind, low temperature, and low precipitation. Alaska's environmental and climatic conditions are the result of the state's far northern location. As a direct consequence of the region's geographic position at high latitude, the Alaska Arctic experiences less intense solar radiation and more pronounced variation in seasons. The region is characterized by a short growing season but long days, continuous permafrost close beneath the land surface, and low summer temperatures that are exacerbated by frequent coastal fog and drizzle, although the overall annual precipitation of the region is low (WRCC, 2006).

For the period 1971-2000 at Prudhoe Bay, Alaska, the annual average precipitation was 4.3 inches. The average monthly precipitation was 0.36 inches, ranging from an average high of 1.12 inches during August to an average low of 0.07 inches in April. For years 1985 through 1999, the mean annual total snowfall was 33.05 inches, with a maximum annual total of 52.5 inches and a minimum of 8.3 inches of snow (WRCC, 2006).

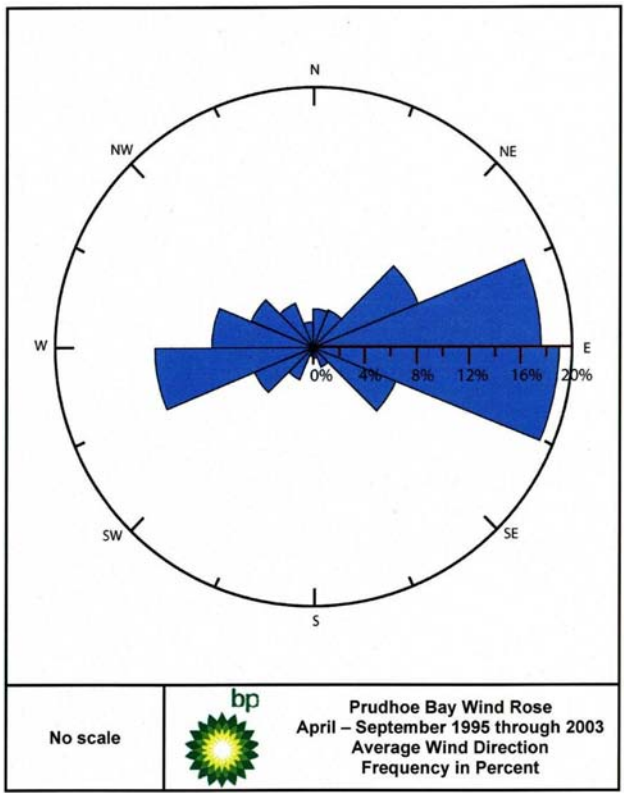


FIGURE 6. PBU Unit Wind Rose

Seasonal temperatures at Prudhoe Bay range from a highest mean maximum of 63.5° Fahrenheit (F) to a lowest mean minimum of -41.7 °F. Below-freezing temperatures are experienced more than 80 percent of the year at the PBU Facility with freezeup usually starting during September and breakup beginning in June. At Prudhoe Bay, July 29 is the date for 10 percent spring freezeup probability (only a 10 percent chance of freezing to 32°F after this date) and August 3 is the 10 percent fall freeze probability date (only a 10 percent chance that temperatures will reach 32°F earlier than this date) (WRCC, 2006). The length of the thawing season is approximately 92 days.

For the period 1992-2002 at Deadhorse Airport, the average annual wind speed was 11.7 mph, with the prevailing wind coming from the east. Northeasterly winds prevail during the summer months (May 1-October 31) and west to southwest winds prevail during winter and early spring (November 1-April 30). Gusting winds are highest and most frequent between September and November.

Arctic sea ice extent, or the area of ocean that is covered by at least 15 percent ice, has been on the decline. For the multi-year pack ice that covers most of the Arctic Ocean, the rate of decline was slightly more than -6.5 percent per decade during the period 1979 through 2001 (NSIDC, 2005). Including 2006, the rate of sea ice decline is now approximately –8.59 percent per decade (NSIDC, 2006). In addition, arctic temperatures have increased in recent decades. In comparison to the past 50 years, average surface air temperatures from January through August, 2005, were 3.6 to 5.4°F warmer than average across most of the Arctic Ocean (NSIDC, 2005).

The arctic system is large and complex, and climate change in the region is driven by many factors. For example, scientists believe that the Arctic Oscillation (AO), a major atmospheric circulation pattern, may have contributed to the sea-ice reduction in the mid-1990s. However, the AO has become less of an influence in the region since the late 1990s, and yet sea ice has continued to decline (NSIDC, 2005).

The annual thaw of lake and river ice, surficial soils, snow, and the active zone of permafrost all contribute to an increase in surface water (Refer to Sections 2.2.2, Permafrost and 2.2.1.1, Physiography). Permafrost along the ACP prevents the downward percolation of surface water and forces it to run off at (and very near) the ground surface. Rivers and streams along the ACP are therefore prone to flooding by runoff, especially during spring breakup (Refer to Section 2.2.5.1 Surface Water).

3.1.7. Seasonal Effects Variations

The typical weather (e.g., temperature, precipitation, and wind) tends to be most controlled by the cycle of the seasons, which vary more or less regularly every year from warm summer to cool winter. Other factors, with longer time scales, can cause systematic changes to the climate (Bond et al., 2007). Longer time-scale variability may include a sequence of abnormally mild or exceptionally severe winters or even a mild winter followed by a severe winter. Such weather pattern variations are often associated with changes in the wind, air pressure, storm tracks, and jet streams that encompass areas far larger than that of a particular region (National Oceanic and Atmospheric Administration, 2005).

The AO appears to be the cause for much of the recent changes that have occurred in the Arctic, as well as the Northern Hemisphere as a whole (Richter-Menge et al., 2006). The AO exhibits a "negative" or “anticyclonic” phase with relatively high pressure over the polar region and low pressure at mid latitudes (about 45° north), and a "positive" or “cyclonic” phase in which the pattern is reversed. During the anticyclonic AO phase, the following changes occur: 1) the Arctic atmospheric pressure is higher than normal, 2) wind speed is lower, 3) winter temperatures are lower, 4) ocean waters are fresher, 5) sea ice areal coverage is greater, and 5) sea ice is thicker than during the cyclonic AO phase.

The cyclonic circulation phase brings the following changes: 1) summer wind divergence produces more openings in the sea ice, allowing the upper ocean to accumulate heat; 2)

the transport of sea ice from the Arctic Ocean increases; 3) advection of heat with air masses to the Arctic increases, which increases ocean freshwater content; and 4) the thickness of the sea ice cover is reduced.

It has been reported that on the ACP, Barrow and Barter Island (1948-1988) have a weak correlation between the AO Index and winter temperatures whereas Prudhoe Bay (1968-present) has a higher correlation (Papineau, 2002). The annually averaged AO index in 2005 was slightly negative, which continued the relatively low and fluctuating index trend that began in the mid-1990s.

3.2. Biological Resources

3.2.1. Vegetation and Wetlands

Vegetation in the arctic is strongly influenced by climate (i.e., severe weather conditions and short growing season), topography, and soils (e.g., drainage and pH). The ACP is covered by low-growing tundra vegetation and innumerable ponds and lakes but no trees. Microtopographic features (i.e., ice-wedge polygons) affect soil drainage and result in a mosaic of micro-habitats, which determine vegetation composition (Figure 7) (Walker and Acevedo, 1987:11). Arctic tundra communities occur in dry, moist, and wet soil conditions and are represented by a low diversity of plant species and low plant biomass. The cold soil temperatures and the short growing season slow decomposition and energy and nutrients tend to remain bound up as dead organic matter. Net primary productivity, nutrient release, and energy flow rates increase with site moisture (Lawson et al., 1978).

FIGURE 7. The permafrost that underlies the Coastal Plain of the Alaskan Arctic and the seasonal frost action at the land's surface has generated the polygonally patterned ground that is common throughout much of the area. Courtesy D. R. Klein, USGS

Wet Tundra

Wet tundra is the dominant vegetation community on the ACP and is found in poorly-drained low-centered polygons, in troughs around high-centered polygons, between hummocks in moist areas, and along lake margins, and drained-lake basins (Walker et al., 1980). Wet tundra sites are generally flooded with standing water (depth <0.3

meters) in early summer, which drains by mid-summer in most years, but the soils remain saturated (ABR, 2007). The wet tundra supports vegetation communities dominated by sedges (e.g., water sedge [*Carex aquatilis*] and tall cottongrass [*Eriophorum angustifolium*]) with some willows (*Salix lanata richarsonii* and *S. pulchra*) (ABR, 2007).

Wet tundra communities are classified as palustrine emergent wetlands or emergent and scrub-shrub wetland under the National Wetlands Inventory (NWI) classification system (Cowardin et al., 1979).

Moist Tundra

Moist tundra is found in the same locations as wet tundra but these areas are typically drained of standing surface water soon after snowmelt, with small areas of water remaining in depressions. Moist tundra soils are saturated (approximately 15 cm depth). Moist tundra supports many of these same species as wet tundra plus Bigelow's sedge [*Carex bigelowii*], tussock cottongrass (*E. vaginatum*), and dwarf shrubs such as mountain cranberry (*Vaccinium vitis-idaea*), entire-leaf mountain avens (*Dryas integrifolia*), and willow (*S. pulchra* and *S. reticulata*).

Moist tundra communities are typically classified as palustrine emergent and scrub-shrub wetlands under the NWI classification system (Cowardin et al., 1979).

Dry Tundra

Dry tundra communities cover approximately two percent of the PBU area and occur on well-drained mineral or gravely soils on lake margins, river bluffs, the sides of pingos, and polygon ridges and (Walker et al., 1980). Vegetation typically consists of prostrate shrubs (e.g., *Salix* sp., four-angled cassiope [*Cassiope tetragona*], bearberry [*Arctostaphylos sp.*]), herbaceous species such as *Oxytropis nigrescens* (black oxytrope) and *Saxifraga oppositifolia* (purple mountain saxifrage), and *Carex sp*. (Walker et al., 1980).

Dry tundra communities that are exposed to saltwater include dry coastal bluffs, beaches, and dune fields at the mouths of major rivers along the Beaufort Sea. Active dunes and beaches support Alkaligrass (*Puccinellia sp.*), sea lyme-grass (*Elymus arenarius*), and Tilesius' wormwood (*Artemisia tilesii*). Inactive well-drained tidal flats support species such as Fisher's tundra grass [*Dupontia fisheri*], *Artemisia tilesii*, *Carex sp.*, and ovel-leaf willow (*Salix ovalifolia*). More stable (or inactive) dunes support shrubs such as crowberry (*Empetrum nigrim*), Lake Huron daisy (*Chrysanthemum bipinnatum*), and *S. ovalifolia*.

Dry tundra communities are described under the NWI classification system as palustrine scrub-shrub wetlands due to their saturated soils and the presence of permafrost (Cowardin et al., 1979).

Aquatic Tundra

Aquatic tundra communities are found at the margins of lakes and ponds, and in partially-drained lake basins where there is a continuous water cover throughout most

summers (Walker et al., 1980). Water depth determines which species are present in an area. In shallow water less than four inches (10 cm) deep, *Carex aquatilis* dominates, with lesser amounts of other sedges, such as *Eriophorum angustifolium* and Scheuchzer's cotton grass (*E. scheuchzeri*). Water to depths of 12 inches (30 cm) deep supports mainly Carex aquatilis with a few herbaceous species such as marsh marigold (*Caltha palustris*) and blatterwort (*Utricularia vulgaris*) (Walker, 1985). Pendant grass (*Arctophila fulva*) dominates in water up to 3.3 ft (1 m) deep, especially found in partially-drained lake basins (Walker, 1985).

These wetlands are classified as palustrine emergent wetlands under the NWI classification system (Cowardin et al., 1979).

3.2.2. Wildlife

3.2.2.1. Birds

About 80 bird species including seabirds, loons, waterfowl, shorebirds, raptors, passerines, and ptarmigans are found on the ACP or adjacent nearshore Beaufort Sea habitats. Nearly all of these species are migratory, arriving from their wintering grounds located primarily in Canada, the continental United States, and Mexico. These migratory birds are present only during the summer breeding season from approximately late May through October.

Waterfowl species common to the ACP include ducks (e.g., long-tailed duck, common and king eiders, and black and surf scoters), geese (e.g., greater white fronted, Canada goose, brant, and snow goose), loons (e.g., Pacific, red-throated, and yellow-billed) and swans (tundra). The Sagavanirktok and Kuparuk River deltas are important waterfowl nesting and breeding habitats. Howe Island, located in the Sagavanirktok River Delta, is the only consistently used nesting colony (about 1,000 geese) of snow geese in Alaska and the United States (Johnson, 1995). Loons establish breeding territories on tundra lakes and ponds as soon as the margins of these habitats are free of ice and snow. After nesting, loons may move to marine habitats before migration in August and September (Johnson and Herter, 1989).

Tundra nesting birds include shorebirds (e.g., plovers, sandpipers, and phalaropes), ptarmigan (e.g., rock and willow), and many songbirds (e.g., Lapland longspur). Predatory birds found on the ACP include raptors (e.g., eagles, hawks, falcons, and owls), six species of seabirds (i.e., glaucous and Sabine's gulls, pomarine, parasitic, and long-tailed jaegers, and Arctic tern), owls (snowy and short eared), and common raven. In addition, black guillemot, present on the Bureau of Land Management (BLM) Sensitive Species List for Alaska, may occur in offshore areas (Johnson and Herter, 1989).

3.2.2.2. Fish

Fishes inhabiting the ACP fall into two groups: 1) freshwater species limited primarily to freshwater habitats; and 2) "anadromous" species that migrate from marine waters to

freshwater to spawn, and "amphidromous" species that migrate between freshwater and marine water for purposes other than spawning (e.g., feeding). The term "anadromous" will be used in this document to refer to fish that spend time in both freshwater and marine environments (Craig and Skvorc, 1989:29). The common name "char" will be utilized in this document to refer to the anadromous chars of arctic drainages which have been called both Arctic char (*Salvelinus alpinus*) and Dolly Varden (*Salvelinus malma*) (Morrow, 1980:58-61). Recent taxonomic studies support the theory that they are a northern form of the Dolly Varden (Reist et al., 1997; Craig and Skvorc, 1989:30).

3.2.2.2.1. Freshwater Fish Species

The Kuparuk and Sagavanirktok rivers support freshwater species such as Arctic grayling (*Thymallus arcticus*), round whitefish (*Prosopium cylindraceum*), ninespine stickleback (*Pungitius pungitius*), and slimy sculpin (*Cottus cognatus*) (Bendock, 1979:687). The Putuligayuk River provides wintering and summer rearing habitat for round whitefish, ninespine stickleback, and four horn sculpin (*Myoxocephalus quadricornis*) (Hemming, 1993). Fawn Creek provides habitat for round whitefish (ADF&G, 2006).

Arctic Grayling

Arctic grayling spawn in shallow stream areas in early spring immediately after breakup. Eggs hatch in a few weeks and the young fish rear in shallow stream areas until declining stream flow in the fall forces them downstream to wintering areas. Adult and juvenile grayling disperse widely during the open water season to stream or pond feeding areas and move to wintering areas prior to freezeup. Arctic grayling is the most important freshwater fish species to sport and subsistence fisheries on the ACP.

Round whitefish

Round whitefish move seasonally within a waterbody; no true migration occurs. Spawning occurs in late September through October in Arctic Alaska when adults move inshore and upstream to shallow stream areas. Sexual maturity is reached in Arctic Alaska at seven years. The round whitefish is sought after in the freshwater subsistence fisheries (Morrow, 1980).

Ninespine Stickleback

The coastal, Bering form of this fish species is confined to Alaska and coastal regions of Canada. The coastal form of ninespine stickleback can tolerate salinities up to 20 parts per thousand (ppt) and may overwinter in marine waters. Ninespine stickleback typically move seasonally within a waterbody. The fish can tolerate low oxygen concentrations and they typically overwinter in deep waters then move into shallow areas during the spring to feed and spawn. Spawning generally occurs during early summer (May to July). Most fish are sexually mature by age 2. Due to its small size and low density, the ninespine stickleback is of no direct value to man (Morrow, 1980).

Slimy Sculpin

The slimy sculpin is an abundant species, common in streams with fast currents and rocky substrates. Spawning occurs shortly after breakup in the spring in shallow waters. Their movements within a waterbody are seasonal. The slimy sculpin is of no direct importance to man (Morrow, 1980).

3.2.2.2.2. Anadromous Fish Species

Arctic Cisco (*Coregonus autumnalis*), least Cisco (*Coregonus sardinella*), char (*Salvelinus sp.*), and broad whitefish (*Coregonus nasus*) are the most abundant anadromous fish species in rivers and nearshore waters adjacent to the Site. The Sagavanirktok River also supports two species of Pacific salmon: chum (*Oncorhynchus keta*) and pink (*O. gorbuscha*) while the Putuligayuk River supports rainbow smelt (*Osmerus mordax*) (ADF&G, 2006).

Arctic Cisco

Arctic Cisco is a truly anadromous fish species. Young-of-the-year Arctic Cisco leave the MacKenzie River and are transported by coastal, wind-driven currents along the Alaskan and Canadian Beaufort Sea coast in summer. In some years, the fish are transported as far west as Simpson Lagoon by late August (Gallaway, 1990:141). Prior to freezeup, the fish move to wintering areas in the Sagavanirktok River. In subsequent years, juvenile and sub-adult Arctic Cisco spend their summers in Alaskan Beaufort Sea nearshore areas and their winters in the Sagavanirktok River. They reach sexual maturity at seven to eight years in Alaskan waters and then return to their natal MacKenzie River to spawn. Arctic Cisco are used primarily by man in subsistence fisheries.

Least Cisco

Least Cisco present between the Colville and Sagavanirktok Rivers (e.g., the Kuparuk River) originate from spawning stocks in the Colville River (Craig and Haldorson, 1981:468). Following breakup each summer, Colville River fish disperse both east and west along the coast to feed, with some fish passing through Simpson Lagoon/Gwydyr Bay and traveling as far east as the Sagavanirktok River Delta. Least Cisco prefer warm, low salinity water and are generally less tolerant of high salinity water than Arctic Cisco. Older least Cisco tolerate salinities up to 20 ppt (Reub et al., 1991:58). In the fall (late August to early September), the fish return to overwintering areas in the Colville River. Least Cisco are taken in subsistence fisheries.

Broad Whitefish

Spawning populations of broad whitefish are present in and indigenous to the Sagavanirktok River. All age groups enter nearshore coastal areas to feed during the open water season and return to river overwintering areas in the fall. Adult broad whitefish have a greater salinity tolerance than younger fish, up to 15 ppt (Reub et al., 1991:57); therefore they disperse farther along the coast, including Gwydyr Bay. Recent evidence suggests that most of the broad whitefish found on the Kuparuk Delta originate from the Colville River (Cronin et al., 1995). Therefore, adult broad whitefish, like least

Cisco, utilize Simpson Lagoon as feeding habitat and a brackish water travel corridor between the Colville River and areas to the east.

Char

Char are generally distributed across the entire nearshore Alaskan Beaufort Sea during the open water season. Spawning populations are present in the Sagavanirktok and Canning Rivers and tributaries of the Colville River. Most char in the project area originate from Sagavanirktok River stocks (Craig and Haldorson, 1981:566). Char usually spend two years in freshwater prior to migrating to the Alaskan Beaufort Sea for the summer but are able to tolerate a wide range of salinity and temperature. They return to rivers to overwinter and/or spawn in the fall.

Pink Salmon

Pink salmon return from marine waters to spawn in their natal streams during the late summer (June to September). After hatching out in the winter, pink salmon fry enter marine waters the next April or May. Pink salmon rear and mature in estuarine waters for about 18 months before returning to their natal streams to spawn. The fish overwinter in marine waters and feed there during the summer. Pink salmon are important in the commercial and subsistence fisheries (Morrow, 1980).

Chum Salmon

Chum salmon return from marine waters to spawn in their natal streams during the fall (September to October). After hatching out in the winter, chum salmon fry move downstream to estuarine waters where they feed for several months before entering marine waters. Chum salmon rear and mature in estuarine waters for three to four years. Chum salmon overwinter in marine waters and feed there during the summer. Chum salmon are important in the commercial and subsistence fisheries (Morrow, 1980).

Rainbow Smelt

Some populations of rainbow smelt are anadromous, moving into freshwater from the coast, usually only a few kilometers upstream, during the springtime to spawn; whereas others are residents of freshwater that move seasonally within a waterbody, from a lake into a river. Upon hatching, the fry are transported downstream in the current. Rainbow smelt apparently do not migrate; but move seasonally and may return to their natal stream to spawn. Rainbow smelt occur in low densities in Alaska and are not valued in commercial or subsistence fisheries.

3.2.2.3. Terrestrial Mammals

The overall density of terrestrial mammal species in the PBU area is low. Species most likely to be found within the Prudhoe Bay facility include: caribou (*Rangifer tarandus*), grizzly bear (*Ursus arctos*), arctic fox (*Alopex lagopus*), and muskoxen (*Ovibos moschatus*). Other species that may occur in small numbers in the area include gray wolf, wolverine, red fox, moose, and coyote.

Caribou

Caribou of the Central Arctic Herd (CAH) range from the Colville River in the west to the Arctic National Wildlife Refuge (ANWR) in the east. The CAH range can overlap with the larger Porcupine Caribou Herd, which ranges farther to the east in ANWR (Cameron and Whitten, 1979:629; Dau and Cameron, 1986:27; Cameron 1994:35). Local residents have observed that caribou belonging to the Porcupine Herd come as far west as Nuiqsut when a southwesterly wind blows steadily for a week and the weather has been warm; otherwise, the herd normally stops near the Sagavanirktok River (T. Napageak - Pers. Comm., Nuiqsut Whaling Captains Meeting, August 13, 1996).

Rut begins in October in the foothills and southern portions of the ACP (Carruthers et al., 1987:425). Although most caribou spend the winter to the south near the Brooks Range, it is common for several small groups of caribou to spend the winter on the ACP (Child, 1973:4; Roby, 1978:70; Carruthers et al., 1987:427). The CAH moves northward in the spring from wintering areas in the foothills of the Brooks Range to calve on the ACP. Calving occurs on the open tundra from late April to early June (Whitten and Cameron, 1985:35-39). Calving can occur across the summer range; however, two areas are used consistently for calving by the CAH: 1) the Kuparuk calving area, west of the Kuparuk River to the Ugnaravik River, 5 to 15 miles (8 to 24 km) south of Milne Point, and north of the Spine Road; and 2) the area west of the Canning River Delta and south of Bullen Point, east of the PBU area (Cameron and Whitten, 1979:626-633; Lawhead and Curatolo, 1984:11; Whitten and Cameron, 1985:37). Little calving occurs within the PBU area in the Prudhoe Bay oil field between the Kuparuk and the Sagavanirktok Rivers (Pollard et al., 1992:iii; Pollard and Noel, 1996:8). Caribou appear to prefer rough ground with some topographic relief for calving, which relates to the diversity of vegetation and biomass of forage species (Nelleman and Cameron, 1996:26).

Bulls, yearlings, and non-pregnant cows migrate to the ACP, including the PBU area from the foothills of the Brooks Range to join cows and newborn calves after calving, forming large aggregations between the Kuparuk River and Oliktok Point and between the Sagavanirktok and Kusik Rivers (Carruthers et al., 1987:326). Avoidance of oil field structures by cows with calves has been documented in Kuparuk-area oil fields (Dau and Cameron, 1986:97-100; Cameron and Smith, 1992:8; Cameron, 1992:7), although aerial survey data showed aggregations of caribou during the post-calving period throughout the area (Pollard and Ballard, 1993a:3; Pollard and Noel, 1995:iv).

Early summer marks the beginning of the insect season for the caribou. The number of days caribou are harassed by insects (insect harassment days) averages approximately 18 per year (Pollard, 1994:3). Two groups of insects harass the CAH during summer: the mosquito group (*Aedes sp.*), which are present from June to late July; and the oestrid group, such as warble flies (*Hydroderma trandi*) and nosebot flies (*Cephenomyia trompe*), which are present in late July and August. Searching for relief from mosquito harassment is the most likely reason for movement of large numbers of caribou through the oil fields to within 0.6 to 1.8 miles (1 to 3 km) of the coast where lower temperatures

and onshore winds reduce mosquito activity (Pollard et al., 1992:39; Pollard and Noel, 1994:44). Caribou generally return inland as soon as the temperature drops and mosquito activity lessens (Pollard and Noel, 1994:8). Caribou also travel or stand on elevated areas (e.g., gravel pads and roads within the oil fields) that afford more exposure to the wind (White et al., 1975:158; Roby, 1978:110; Pollard and Ballard, 1993b:14; Pollard and Noel, 1994:3). Caribou react to oestrid fly harassment by splitting up into smaller groups or individually (Roby, 1978:104). Wind has less effect on reducing fly harassment than mosquito harassment, and few animals move to the coast and into the oil fields to get relief from flies (Roby, 1978:111). The CAH begins to disperse from the ACP and move inland into the foothills of the Brooks Range in mid- to late August, coinciding with the late stages of the insect season.

Total numbers of caribou within the CAH ranged from 5,000 in 1975 to over 23,000 in 1992 (Lenart, 2005). The rate of increase has slowed in recent years and estimated numbers dropped to 18,100 in 1995 (Lenart, 2005). By 2000 herd size had increased substantially to over 27,000 animals and by 2002 the size of the CAH was estimated at just over 31,000 animals (Lenart, 2005).

Arctic Fox

The Arctic fox is a year-round resident of the ACP and a common predator throughout the PBU Facility. The fox has become habituated to the presence of humans and human activities in the North Slope oil fields, because humans provide both artificial food sources (garbage) and denning sites (gravel pads and roads). The Arctic fox is a major predator of eggs and young of waterfowl, shorebirds, and passerines, as well as microtine rodents and Arctic ground squirrels (Eberhardt et al., 1982:188). Any increase in numbers of fox as a result of human activities (i.e., artificial den sites and supplemental food sources) can result in increased predation on their natural prey species (Burgess et al., 1993:1). Fox dens, typically located on widely scattered, dry sites, are more abundant near the North Slope oil fields than in undeveloped areas (Burgess and Banyas, 1993:10), and productivity of Arctic fox at these sites is higher. Food during the summer months is likely the limiting factor to fox population growth, as opposed to the availability of den sites (Burgess and Banyas, 1993:13). Density of fox dens in the central portions of the Arctic Coastal Plain has been recorded at 1 per 18 to 28 square miles (46 to 72 km^2) (Burgess and Banyas, 1993:12).

Grizzly Bear

Grizzly bears, also known as brown bears, are typically found near riparian habitats on the ACP because these areas provide the greatest diversity of foods. Densities of brown bears are generally lowest on the ACP. The most recent bear densities along the Central Arctic Slope (Game Management Unit [GMU] 26B, between the Canning and Colville Rivers) was 1.8 bears/100 square miles (Stephenson, 2005). The major oilfield region is located between the Sagavanirktok and Colville rivers, two of the largest riparian areas on the North Slope, thereby providing bears ample opportunity to encounter oilfield facilities and activities.

Although grizzly bears typically feed on tundra vegetation, they often are attracted to oil fields and communities to feed on food waste in dumpsters and landfills. A few radio-collared bears have spent the entire summer within the oil fields, particularly near the NSB landfill (Shideler and Hechtel, 1994:32). A recently installed electric fence at the NSB Landfill has eliminated bear use of this site. Grizzly bears are known to prey on brant and snow goose nests at Howe Island in the Sagavanirktok River Delta (Johnson, 1995:3) and will dig up squirrel and fox dens. Denning sites include pingos, raised lake margins, and riverbanks, generally some distance from the PBU Facility. However, six dens have been documented within the PBU Facility (Shideler and Hechtel, 1994:32).

Muskoxen

The original Alaska muskoxen disappeared in the mid- or late-1800s. In 1935-36 muskoxen captured in East Greenland were transported to Nunivak Island and released. Muskoxen thrived on Nunivak Island and increased from 31 in 1936 to an estimated 750 by 1968. Among other places, Nunivak Island muskoxen have been transplanted to the Arctic National Wildlife Refuge, located east of the PBU Facility (ADF&G, 2005).

The population of muskoxen in Game Management Unit (GMU) 26B included about 300 individuals as of 2003. During the winter, muskoxen form large groups (of 6-60) and tend to remain in one location; whereas during the summer, they form smaller groups (5-20) and are more distributed. A large group of muskoxen had been wintering for several years near the Sagavanirktok River but were not located in 2003 (Lenart, 2005). Muskoxen are sought after by hunters.

3.2.2.4. Marine Mammals

Marine mammal species are protected by the 1972 Marine Mammal Protection Act (MMPA) as amended November 2001 (16 USC 1361-1407). The MMPA explicitly states that it is illegal to “harass, injure, capture, kill, or to attempt to harass, injure, capture, or kill" a marine mammal. The term used to describe any of these activities is "take.” However, Section 101(a)(5)(A) of the MMPA includes an exception to the law by authorizing the issuance of regulations to allow the incidental, but not intentional, taking of small numbers of marine mammals, upon request (as defined in 50 CFR 18.27(c)) for a specified activity (other than commercial fishing) in a specified geographic region. The following marine mammals can occur in the Beaufort Sea, but are less common near Prudhoe Bay: Walrus *(Odobenus rosmarus)*, Gray Whale *(Eschrichtius robustus)*, Beluga Whale *(Delphinapterus leucas)*, Killer Whale *(Orcinus orca)*, Ribbon Seal *(Histriophoca fasciata)*, Bearded seal *(Erignathus barbatus)*, and the Spotted seal *(Phoca largha)*.

Bowhead Whale

Bowhead whales *(Balaena mysticetus)* are robust and powerful baleen whales measuring up to 60 feet in length and weighing approximately one ton per foot of length. When it surfaces to breathe, a V-shaped spout issues from twin blowholes at the peak of its massive head. Bowhead whales are the only baleen whales that spend their entire

lives near sea ice and do not migrate to temperate or tropical waters to calve. Bowheads are well adapted for living in arctic and subarctic waters—they have very thick blubber, up to 1½ feet (0.5 m), which is used for insulation, food storage, and padding, and a heavy bone structure in their skulls for breaking ice.

The largest mouth and head of bowheads comprise about one- third of their body length. The upper jaw is arched upward, and paired blowholes are located at the peak of the elevated "crown." This large, bow-shaped head distinguishes bowheads from other whales. Bowhead calves are gray and adults are black with varying amounts of white on their chins, bellies, and tail areas. The white patches plus scars sometimes make it possible for airborne researchers to identify individuals. Their skin is smooth and nearly free of external parasites. Bowheads have short, wide flippers. Their flukes are very broad, equaling one-third of the body length.

Bowheads are an important subsistence animal, both culturally and nutritionally, for most northwestern Alaska coastal Eskimos. In the days of commercial whaling, the bowhead was valued for its large quantities of baleen and oil.

Woodby and Botkin (1993) estimated a minimum total population prior to whaling of about 50,000; this subsequently declined to an estimated 5,000 individuals. Bowhead whales *(Balaena mysticetus)* were listed as Endangered on June 2, 1970 (35 FR 8495), and only Native subsistence harvests were allowed. The bowhead population was reduced by an estimated 80% due to commercial whaling in the 18th and 19th centuries. Today, populations now number about 11,000 to 12,000 individuals in only five discrete populations.

The five discrete populations exist in the Western Arctic region (Bering, Chukchi and Beaufort Seas), Davis Strait, Hudson Bay, Spitsbergen region (Svalbard-Barents Sea), and the Sea of Okhotsk. The Western Arctic group winters along pack ice in the Bering Sea. During late March and April, bowheads move north through the Bering Strait as the pack ice retreats. Most bowheads follow leads, or cracks, in the ice through the Chukchi Sea along the Alaska coast to Point Barrow. Bowheads usually round Point Barrow by early June on their way to summer feeding areas in the Canadian waters of the Beaufort Sea, mainly east of Barrow to Amunsen Gulf (IUCN, 1991). In August, they begin moving west toward Wrangel Island, and in late fall return south through Bering Strait.

Mating probably occurs during late winter and spring. The gestation period is 13 to 14 months. Most bowhead whales calve during April, May, or early June. After plunging from the internal body temperature of their mothers into near freezing water, the newborns must begin swimming north with the migrating herd almost immediately. Bowhead whales are shorter but heavier at birth than most other baleen whales. The calves are about 14 feet (4.3 m) long and weigh about 2,000 pounds (907 kg) when they are born. Bowheads calve at about three to four year intervals.

The Western Arctic population, the largest group, was estimated to number 10,400-23,000 prior to commercial whaling and is now at 10,000 (Woodby and Botkin, 1993). The population has been increasing one to three percent annually in recent years, while

other populations, which are much smaller, show no evidence of increase. The bowhead whale is slow to mature and has low fertility, but can survive to a very old age. Bowhead age determination is difficult, but their life span is thought to be similar to humans.

Polar Bear

The Beaufort Sea region is historical polar bear habitat. Polar bears (*Ursus maritimus*) have been sighted in the area since the initial development of the Distant Early Warning (DEW) Line site at Oliktok Point in the 1950s. The southern Beaufort Sea management unit spans an area which includes Prudhoe Bay. Polar bears are present in the Beaufort Sea year round. The southern Beaufort Sea population of polar bears occurs in the "divergent ice ecoregion" of the polar basin, where polar bears historically have remained on multiyear sea ice as it retreats toward the center of the polar basin during the summer (Regehr et al., 2007). They make a seasonal shift away from land as the landfast ice melts every summer. The Beaufort Sea population has increased in number at an estimated annual rate of two percent or more during the past three decades (Amstrup et al., 2001). The estimated 2006 Beaufort Sea population is approximately 1,526 animals (Regehr et. al., 2007).

During late autumn (late August to mid-October) to spring (March to May), polar bears are distributed widely, occurring on pack ice, landfast ice, and land. They are most abundant in the active thaw zone, where ringed seals, their principal prey, are most available (Burns et al., 2001). During the open-water season, polar bears are usually associated with the pack ice, although they can be seen on land or swimming in open water at considerable distances from the ice. As pack ice comes closer to the coast during autumn, polar bears commonly swim ashore and scavenge beach cast carcasses or the remains of bowhead whales taken by subsistence hunters (Kalxdorff and Proffitt, 2003).

Unlike other bears, males and non-pregnant female polar bears are active all winter. Pregnant females make maternal dens in deep snowdrifts during late October to early November (Durner et al., 2003; Amstrup and Gardner, 1994). Recent evidence suggests that pregnant females may be making dens later into December (USGS Polar Bear Program unpublished data). Between spring 1982 and spring 2003, 186 maternal dens were discovered between 137°W (in the Beaufort Sea) and 167°W longitudes (in the Chukchi Sea). Of those, 52 percent were on land or landfast ice and 48 percent were on pack ice (USGS, 2002). Historically, polar bears have denned in the Colville River Delta region in low numbers. The USFWS maintains records of historical den locations and the den locations change annually.

Female polar bears produce one or two cubs, usually two, that are born in dens from December to January. The mothers and their cubs emerge from maternal dens from late March to early April, and those that are on land typically head to the sea (Amstrup, 2000). In 2001 and 2002, when the ice-free period was relatively short, the survival rate of adult female polar bears was high, but in 2004 and 2005, when the ice-free period was relatively long, the survival rate of female polar bears was lower. Regehr and others

also found that breeding and cub-of-the-year litter survival also declined between 2001 and 2006 (Regehr et al., 2007).

The polar bear is not currently listed under the Endangered Species Act (ESA). However, a petition was filed with the Secretary of the Interior in February 2005 to list the polar bear as threatened under the ESA, based on the loss of sea-ice habitat. A species can be listed under the Endangered Species Act under one of two categories, endangered or threatened. An endangered species is likely to go extinct within all or a significant portion of its range in the foreseeable future. The polar bear was petitioned to be listed as a threatened species, defined as a species likely to become endangered in the foreseeable future.

The USFWS published a proposed rule to add the polar bear to the federal list of threatened and endangered species on January 9, 2007. The proposed rule to list the polar bear as threatened does not include a proposal for designating critical habitat. As part of the request for comments on the proposal to list the species, the USFWS was also seeking information regarding measures to consider and reasons why any habitat should or should not be determined to be critical habitat for the polar bear if the listing becomes final.

The public comment period for the proposed listing closed 90 days following publication in the Federal Register. However, the U.S. Geological Survey and collaborators developed nine reports targeting specific questions considered to be especially informative to the final decision. Those reports were released to the public on September 7, 2007. The USFWS reopened the public comment period on its proposal to list the polar bear as a threatened species under the Endangered Species Act through October 22, 2007. The extended comment period was intended to give the public an opportunity to review and respond to recent research conducted by the U.S. Geological Survey on polar bear populations, range-wide habitats and changing sea ice conditions in the Arctic. The USFWS has a statutory deadline that required a final listing determination to be made within one year of the January 9, 2007, publication of the proposed rule.

Ringed Seals

Ringed seals (*Phoca hispida*) are widely distributed throughout the Beaufort Sea (Angliss and Outlaw, 2007). Ringed seals can be seen along the coast, on barrier islands, artificial islands, swimming offshore in open water, and hauled out on ice during winter. Seals are the primary prey of polar bears and the presence of seals may attract polar bears to an area.

Ringed seal densities are related to food availability, water depth, ice stability, and distance from human disturbance. Along the Beaufort Sea coast from Barrow to Kaktovik, ringed seal densities ranged from 0.81-1.17 per square kilometer (Angliss and Outlaw, 2007). Ringed seal pups are born in late March and April in lairs that seals excavate in snowdrifts as well as on pressure ridges on the ice. During the breeding and pupping season, adults on shorefast ice (floating fast-ice zone) usually move less than individuals in other habitats; they depend on a relatively small number of holes and

cracks in the ice for breathing and foraging. During nursing (4-6 weeks), pups usually stay in the birth lair (Frost and Lowry, 1999).

3.2.3. Threatened and Endangered Species

3.2.3.1. Wildlife

Two bird species listed as threatened under the ESA are found within the Site: spectacled and Steller's eiders. Two additional bird species listed as endangered under the ESA are not found within the PBU Facility: short-tailed Albatross, and the Eskimo Cerlew. The last confirmed sightings of the Eskimo Cerlew occurred in Galveston, Texas in 1962 and the species is widely believed to be extinct (Bird Life International, 2004). Several bird species are on the BLM Sensitive Species List for Alaska: brant, long-tailed duck, common and king eiders, black and surf scoters, and yellow-billed and red-throated loons.

Spectacled Eider

The world population of spectacled eiders (*Somateria fischeri*) is considered to be divided among three relatively distinct breeding populations that nest in three different geographic regions (USFWS, 1996; USFWS, 1999): the Yukon-Kuskokwim Delta in western Alaska, the North Slope of Alaska, and the Russian Arctic. The population of spectacled eiders nests in small numbers with a discontinuous distribution over large areas of wet tundra along the coast of Alaska from the Bering Sea north to Barrow and east along the Arctic Coastal Plain (ACP) into the Arctic National Wildlife Refuge (ANWR). Approximately 7,000 spectacled eiders occupy the ACP during breeding season, which is about 2.0 percent of the estimated 363,000 birds in the world population (Larned et al., 2001). Historically, the Yukon-Kuskokwim Delta had the largest nesting population. Historical breeding grounds along the Alaskan Beaufort Sea coast are thought to be near Cape Halkett or Cape Simpson, and in the National Petroleum Reserve, Alaska (Johnson and Herter, 1989:87). The spectacled eider population is thought to be expanding to the east, although suitable habitat is limited east of the Shaviovik River.

Molting appears to occur over a broad area from the Alaskan Beaufort Sea coast to Icy Cape and Ledyard Bay, Russia, with the latter considered the primary molting area (Larned et al., 1995:35). The time between when the spectacled eiders arrive on the North Slope and when they depart is broken into three periods. The pre-breeding period lasts from arrival of eiders on the North Slope in early June to approximately mid- to late-June. Spectacled eiders arrive at the Alaskan Beaufort Sea coast in May from their wintering area and move onto the tundra nesting grounds as freshwater ponds thaw. After breeding and eggs are laid, the incubation, or the nesting period, lasts approximately 24 days, through mid- to late July. Soon after breeding, male spectacled eiders leave the tundra ponds for nearshore and offshore waters where they feed for a short period prior to making their southward migration (USDOI, MMS, 1996:III B-13). After eggs hatch in mid- to late-July, the brood-rearing period begins and lasts until the

female and young depart the breeding ground in late August and early September. All of the North Slope production oil fields are within the spectacled eider's North Slope breeding range. Spectacled eiders use the nearshore waters in the North Slope/Beaufort Sea area until migration in late summer (McDonald et al., 2002).

The spectacled eider was listed as a federal threatened species on May 10, 1993 (58 FR 27480) after a significant decline in population was noticed in 1990 (Stehn et al., 1993:264). This decline was especially apparent in the Yukon-Kuskokwim Delta in western Alaska, where the nesting population declined by as much as 96 percent between 1971 and 1990 (Stehn et al., 1993:271). The estimated Yukon-Kuskokwim Delta population declined from 47,700 pairs prior to 1972 (Dau and Kistchinski, 1977) to 1,721 pairs in 1992 (Stehn et al., 1993). In the PBU Facility, a trend of fewer birds sighted was observed between 1981 and 1991, although the change was not statistically significant (Warnock and Troy, 1992:13). This trend was noted to be similar to that occurring in the Yukon-Kuskokwim Delta (Warnock and Troy, 1992:17).

Troy Ecological Research Associates (TERA) conducted breeding-pair surveys between 1991 and 1996 in a study area that was sometimes expanded or reduced each year, but generally included the Prudhoe Bay Unit. In the TERA surveys, the Prudhoe Bay Unit is included in portions of three subdivided areas described as the Sakonowyak, Prudhoe, and Saganvirktok areas. The actual counts and estimated densities for each area are summarized in Table 3-4. The distribution of breeding-pair sightings in PBU from 1991 through 1995 is presented in Figure 8. In 1991, TERA estimated 120 pairs of spectacled eiders in the Prudhoe Bay Unit (Warnock and Troy, 1993). In 1992, an estimated 133 pairs of spectacled eiders bred within the study area, of which 71 were estimated in the Prudhoe Bay Unit (TERA, 1993). The decrease in breeding-pairs within the Prudhoe Bay Unit between 1991 and 1992 was attributed to methods of estimation related to the size of the study area, rather than a population decrease (TERA, 1993). In 1993, an estimated 220 breeding-pairs were present in the study area, but no estimate was provided for the Prudhoe Bay Unit alone. Breeding success in 1993, however, was relatively low and of the ducklings that hatched, 43% were believed to have survived to fledging (TERA, 1995). In 1994, a total of 232 spectacled eider pairs were counted in the entire study area, with the highest density of spectacled eiders occurring in the Prudhoe and Milne areas. Also in 1994, an estimated 54% of the ducklings hatched survived to fledging (TERA, 1996a). In 1995, a total of 197 spectacled eider pairs (or males which were presumed to represent pairs) were counted in the study area and again, the highest density occurred in the Prudhoe area. However, it was suspected the 1994 count was inflated by the presence of birds displaced from areas of delayed melt in the western Arctic Coast Plain. As a result, the apparent decrease from 1994 was thought to represent a return to a more typical distribution rather than an actual population decrease (TERA, 1996b). As part of these studies, TERA tracked the movements of spectacled eiders and found indications that actual nest sites were probably a considerable distance, and most likely associated with a different waterbody, than where

the male is observed. In addition, broods were found to move extensively following hatching, and there was no conspicuous avoidance of facilities (TERA, 1996b).

TABLE 3-4. SPECTACLED EIDER POPULATION ESTIMATES (# PAIRS) IN THE PRUDHOE BAY UNIT VICINITY

	Year	Sakonowyak	Prudhoe	Sagavanirktok
Actual Counts	1991	--	49	--
	1992	41	45	5
	1993	43	85	26
	1994	41	101	34
	1995	46	81	24
Density (pairs/km2)	1991	--	0.09	--
	1992	0.12	0.08	0.02
	1993	0.12	0.16	0.13
	1994	0.12	0.19	0.16
	1995	0.13	0.15	0.12

Data from "Distribution and Abundance of Spectacled Eiders in the Vicinity of Prudhoe Bay, Alaska: 1995 Status Report by Troy Ecological Research Associates (1996).

Breeding-pair surveys conducted between 1992 and 1996 show no clear change in the spectacled eiders' breeding population (TERA, 1995:5). Based on the 1992 data, it was noted that the distribution of spectacled eiders within the oil fields appeared to be independent of roads, pads, and pipelines (TERA, 1993). Extrapolations of the densities recorded by TERA in their study area suggest that, with an estimated number of spectacled eiders at 20,000 to 30,000 on the North Slope, the largest North American population of spectacled eiders is on the North Slope, rather than on the Yukon-Kuskokwim Delta as previously assumed (TERA, 1995)

Census work in 1993 on the ACP indicated that eiders were distributed widely and were most abundant within 37 miles (60 km) of the coast between Icy Cape and Barrow (Larned and Balogh, 1994:1). Nesting pairs have been most concentrated in the central ACP just west of the Sagavanirktok River in a band including Deadhorse and the Prudhoe Bay Operations Center (Troy, 1995:19).

Steller's Eider

The range of the Steller's eider (*Polysticta stelleri*) has been shrinking for decades. More recently this bird has rarely been found in the vicinity of the Colville River Delta and even less commonly to the east (King, unpublished. data; Larned, unpublished data). Over the past several decades small numbers of Steller's eiders have been observed onshore as far east as the Sagavanirktok River, but the extent of their use of offshore Beaufort Sea waters is unknown.

Aerial breeding population surveys indicate a coastal plain population of 178 at an estimated density of 0.07-0.09 birds per square kilometer (ABR, Inc., 1999; Larned et al.

2001). The Alaskan breeding population of Steller's eider was listed as a federal threatened species on June 11, 1997 (62 FR 31748). The historic and current population sizes of the Steller's eider are unknown (62 FR 31748). The USFWS designated approximately 7,333 square kilometers (2,830 square miles) on the Yukon-Kuskokwim Delta and elsewhere in southwest Alaska as critical habitat (66 FR 8850). Presently, the only documented breeding population in Alaska is in the Barrow area.

During aerial spectacled eider surveys, TERA recorded Steller's eiders only in the Milne area, but noted that they are seen periodically at Prudhoe Bay as part of ground investigations. Steller's eiders are much less numerous than spectacled eiders in the Milne/Prudhoe region; however, it was noted that the surveys may underestimate the occurrence of Steller's eider as they probably peak in abundance after the spectacled eider surveys were conducted (TERA, 1997).

In anticipation of the listing of spectacled and Steller's eiders under the Endangered Species Act, the U.S. Fish and Wildlife Service initiated annual comprehensive aerial waterfowl breeding population surveys in 1992 along the Arctic Coastal Plain. These surveys, while providing useful data for spectacled eider and other species of waterfowl, have been inadequate in sampling intensity for Steller's eiders, which are present on the ACP in very low densities. In 2005, only one lone male Steller's eider was observed near Barrow, and a pair was observed 28 km southeast of Wainwright. There were so few Steller's eiders detected during the 2005 survey that it was of little value for detecting a useful population trend (Larned et al., 2005). In another survey conducted in 2005 for Common eiders, six Steller's eider hens were observed along the Arctic Coastal Plain, but the proximity of those sightings to the PBU was not presented (Dau and Larned, 2005).

There have been no nests found at the PBU area (USAED, 1998). Very little information is available regarding Steller's Eiders in the PBU.

Critical Habitat

There is no USFWS-designated critical habitat designated along the North Slope near or at the Site for either spectacled or Steller's eiders (USFWS, 2001).

3.2.3.2. Vegetation

There are no federally-listed threatened or endangered plant species on the North Slope of Alaska; however, six plant species that may be found at the Site are characterized as "rare" by the Alaska Natural Heritage Program (ANHP) (Table 3-5) (Carlson et al, 2006). All six of these species occur within a large geographic range. The population size of four of the six species is considered somewhat large. Three species are found within broad habitat specificity, while the habitat of the other three is restricted (Carlson et al, 2006).

TABLE 3-5. VASCULAR PLANT SPECIES FOUND IN THE PBU AREA CONSIDERED RARE BY THE ALASKA NATURAL HERITAGE PROGRAM

Scientific Name	Common Name	Global Rank1	State Rank2	Landform
Draba subcapitata	Ellesmereland whitlowgrass	G4	S1	High-centered polygons
Pedicularis hirsuta L.	Hairy lousewort	G5?	S1	Lake and river banks
Pleuropogon sabinei R.Br.	False samephoregrass	G4G5	S1	Rivers, drainage channels
Puccinellia vahliana (Liebm.) Scribn. and Merr.	Vahl's alkaligrass	G4	S2S3	High-centered polygons, pond margins
Saxifrage aizoides L.	Yellow mountain saxifrage	G5	S1	Disturbed areas, lakeshores
Symphyotrichum pygaeum Brouillet and Sugirthini	None	G3	S2	River banks, sand dunes

Source: Carlson et al 2006

ANHP Rare Species Global Rankings1
G3: Rare or uncommon globally (typically 21-100 occurrences within range).
G4: Apparently secure globally, but cause for long-term concern.
G5: Demonstrably secure globally.
?: Inexact
ANHP Rare Species State of Alaska Rankings2
S1: Critically imperiled in state (typically 5 or fewer occurrences).
S2: Imperiled in state (typically 6 to 20 occurrences).
S3: Rare or uncommon in state (typically 21-100 occurrences).

3.3. Socioeconomics

This subsection provides a description of regional human presence in the PBU Facility. Resources discussed include cultural and archaeological resources, subsistence, recreation, transportation, and economy. The community of Deadhorse is located in Prudhoe Bay. The next nearest community to the PBU Facility is Nuiqsut, which is located about 35 miles from the Beaufort Sea coast, 60 miles west of Prudhoe Bay.

3.3.1. Cultural Resources and Archeological Sites

Prehistoric or historic sites are those listed in or eligible for the National Register of Historic Places (NRHP) (36 CFR 800). A site must be over 50 years old to be considered "historic" unless it has exceptional national state or local significance. Certain Alaska Native sacred sites may also be significant (Executive Order 13007 1996), and certain traditional cultural properties also may be eligible for the National Register (36CFR 60.4). The State of Alaska Historic Preservation Act and the NSB also stipulate protection of area cultural resources.

The Alaska Office of History and Archaeology (OHA) and the NSB Inupiat History, Language, and Culture Commission (IHLC) are the primary repositories of archaeological and historic land use data for the North Slope. The Alaska Heritage Resource Survey (AHRS) maintains a statewide listing of archaeological site data. The

NSB's Traditional Land Use Inventory (TLUI) database contains place-names and site data primarily related to important historic subsistence use areas.

Prehistoric and historic cultural/archaeological sites are known to be located within or near the PBU Facility. The sites are widely dispersed and are generally located along the Alaskan Beaufort Sea coast. These and other undocumented cultural/archaeological sites contain valuable prehistoric, historic, and current cultural information that are indicative of the Inupiat's long-term and continuous use of the region.

There are 12 cultural/archaeological sites listed in the PBU Facility based on information obtained from AHRS and TLUI. These sites are described in Table 3-6. The location of these sites has been plotted to verify their location within the boundary of the PBU, however, these figures are not provided herein to protect these sites and their artifacts. The NRHP lists one site that is located on the North Slope, within the PBU area. This site is the Prudhoe Bay Oil Field Discovery Well Site (Reference Number: XBP-00056, Site #00000264, added in 2000, also known as ARCO--Humble Prudhoe Bay State No. 1). This site is located 200 miles SE of Barrow, about two miles north of the mouth of the Putuligayuk River along the western shore of Prudhoe Bay.

TABLE 3-6. PBU UNIT ARCHAEOLOGICAL SITES

Reference Number	Site Name	Period	Description
XBP-00005	Prudhoe Bay #1 (East Dock Benchmark	Historic	Site
XBP-00006	Tikigaagruk (Head Point)	Historic	Site, settlement, tent rings
XBP-00007	Putuligayuk River Delta Overlook	Prehistoric	Site
XBP-00017	Kuparuk River Site (Gwydyr Bay)	Historic	Site
XBP-00019	Point McIntyre (Siglaktitaq)	Historic	Site, house ruins, driftwood, milled wood
XBP-00045	Spine Road Pingo (East Creek Pingo Site)	Prehistoric	Site, activity area, hearth, lithic artifacts
XBP-00047	Milne Point Road Pingo	Prehistoric	Site, activity area, lithics
XBP-00048	Sakonowyak Pingo #1	Prehistoric	Site, activity area, lithic remains
XBP-00049	Sakonowyak Pingo #2	Prehistoric	Site, activity area, lithic remains
XBP-00056	Prudhoe Bay Oil Field Discovery Well Site	Historic/ Modern	Object, discovery well
XBP-00070	Prehistoric Site at BM Betty (Return Mound)	Prehistoric	Site
XBP-00071	Prehistoric Site at BM Michele	Prehistoric	Site

3.3.2. Subsistence

The Inupiat residents of the North Slope have retained a largely traditional, subsistence-based lifestyle. They participate in the harvest of subsistence resources and related cultural activities throughout the year. Subsistence activities are a significant part of the overall North Slope economy.

The Alaskan Beaufort Sea and adjacent land area have been the home of the Inupiat people for thousands of years. Numerous cultural and historical resource sites on barrier islands and along the coastline and rivers of the North Slope are evidence of the Inupiat's long-term, continuous use of the region. The Inupiat residents of the North Slope have retained a largely traditional, subsistence-based lifestyle. They participate in

the harvest of subsistence resources and related cultural activities throughout the year. Harvesting, processing, and distributing bowhead whale is particularly important to the Inupiat culture. Subsistence activities are a significant part of the overall North Slope economy.

The Alaska Native population in the coastal communities is dependent upon subsistence resources, especially marine mammals such as ringed seals, bearded seals, walrus, polar bears, beluga whales, several species of fish, and the most important subsistence resource of all, the bowhead whale. Several land animals are also an important subsistence resource, such as caribou, moose, wolves, wolverines, muskox, fox and migratory waterfowl. Inupiat Eskimos do not utilize these animals for food only. Traditional land use on the North Slope is based on subsistence activities directly linked to land and water use and the knowledge necessary to use the natural resources of the region. Hunting, fishing, and gathering berries and greens require knowledge of the environment. Residents of Nuiqsut have historically used the PBU Facility east to the Sagavanirktok River.

3.3.3. Recreation

Recreation in and around the Site consists of hunting, trapping, fishing, boating, and off-road vehicle use. Sport hunting in the area exists for muskoxen, caribou, brown bear, and waterfowl. Trapping in the PBU Facility exists for furbearers such as coyote, fox, lynx, and wolverine (ADF&G, 2007).

Guiding outfits offer hunting and recreational services on the ACP. Riding snowmachines during winter and off-road vehicles during summer are popular activities in the area surrounding the PBU Facility. The majority of sport fishing in the PBU takes place along the Dalton Highway, where rivers are easily accessible. The Sagavanirktok River is popular with fishermen for Arctic grayling, Dolly Varden, burbot, and whitefish. The Kuparuk River provides opportunity to fish for Arctic grayling. The Sagavanirktok River also offers some opportunities for boating in conjunction with fishing trips (ADF&G, 2005a).

3.3.4. Transportation

There is no permanent road access to the NSB communities, although occasional construction of an ice road provides a connection between Nuiqsut and the industrial complex at Deadhorse. Residents travel between communities and to subsistence harvest sites by boat, airplane, and snow machine as conditions permit. The airport at nearby Deadhorse is the primary means of public transportation to the North Slope.

The James B. Dalton Highway (Haul Road) connects Deadhorse to Fairbanks and is the only road to the North Slope. It was constructed as an industrial service road but has been opened to the general public. Regularly scheduled commercial air services to Deadhorse, Barter Island, Nuiqsut and Barrow are the primary means of passenger and cargo transportation to and within the NSB. A short open water season on the Chukchi

and Alaskan Beaufort Seas allows limited annual barge transport of materials and fuel to coastal communities and Deadhorse.

3.3.5. Economy

3.3.5.1. North Slope Borough

The NSB is the largest, northernmost, geographic municipality in Alaska, covering approximately 88,817 square miles of land. In 2005, the NSB had a recorded population of 6,894 residents living in nine permanent communities, including Deadhorse/Prudhoe Bay and Nuiqsut (ADCCED, 2007). The majority of residents are indigenous Inupiat Eskimos who practice a traditional subsistence lifestyle.

Employment in Nuiqsut is limited, partially due to its isolation. Current population of the second-class city of Nuiqsut is 411 individuals (ADCCED, 2007). The Native Village of Nuiqsut is the federally-recognized tribe in the community.

The cash economy is derived to a great extent from taxation of oil industry facilities by the NSB, and by employment in provision of government services. The majority of wage-earning North Slope village residents are employed by the NSB, the NSB School District, village governments, regional and village corporations created by the Alaska Native Claims Settlement Act, or the oil industry.

3.3.5.2. Prudhoe Bay

The 2005 demographer's population estimate in Prudhoe Bay (Deadhorse) is just two permanent residents. The majority of the population in Prudhoe Bay is transient, with most of the estimated 5,000 employees involved with drilling, pipeline operations, cargo transportation and a variety of support positions, and they travel home to Anchorage or the lower 48 states when off duty (ADCCED, 2007). Living quarters, food, and recreational facilities are provided to the workforce.

The BPXA workforce in the PBU area was 696 personnel in September 2006. An estimated 333 personnel were working in the Western Operating Area and an additional 363 were working in the Eastern Operating Area in September 2006.

- Page Intentionally Left Blank -

4. REFERENCES

Alaska Biological Research, Inc. (ABR, Inc.) 1999. Results of Steller's Eider Surveys near Barrow, Alaska, unpublished report. Fairbanks, AK: ABR, Inc., 5 pp.

ABR, Inc. 2007. Ecosystems of Northern Alaska. Prepared by Torre Jorgenson, ABR Inc., Fairbanks, AK and Muchael Heiner, The Nature Conservancy, Seattle, WA. Available online at http://www.uspermafrost.org/reports.shtml. Retrieved January 11.

Alaska Department of Commerce, Community, and Economic Development (DCCED). 2007. Alaska Division of Community Advocacy. 2007. Community Database Online. Deadhorse and Nuiqsut. Available at http://www.commerce.state.ak.us/dca/commdb/CF_BLOCK.htm. Retrieved on January 22, 2007.

ADEC. 1987. Preliminary Review and Visual Site Inspection Report, RCRA Facility Assessment, ARCO Prudhoe Bay Unit Eastern Operating Area (AKD91281221). April.

ADEC. 1996. Letter from Laura Ogar to Shellie Jones with ARCO Alaska, Inc. Regarding ADEC Response to ARCO Request (received May 23, 1996) for Approval to Defer Remediation of Stockpiled Gravels at Pad #3 West Pit; and Approval to Allow Backup Storage of Additional Gravels at Pad #3 East Pit (DEC File #300.15.070), June 11, 1996.

ADEC. 1999. Policy for Establishing Cleanup Levels for Sites in the Arctic Zone in Accordance with 18 AAC 75, Article 3, Guidance No. SPAR 99-3. ADEC Division of Spill Prevention and Response. December 22.

ADEC. 2001. Letter from Heather Stockard with ADEC to George Snodgrass with BPXA Regarding Issuance of Permanent Closure Approval for T-Pad (excavated portion of pit only) located in the Prudhoe Bay Unit, WOA. September 14.

ADEC, 2002. Letter from Leslie Simmons to George Snodgrass with BPXA Regarding Pad 3, Cells 1 and 2 Corrective Action and Closure Plan (approval), in Accordance with ADEC Permit 9536-BA004. January 31.

ADEC. 2002a. Letter from Linda Neuchterlein at ADEC to Shana Kane at BPXA Regarding Long Term Storage Plan Approval for Contaminated Gravels, Greater Prudhoe Bay, Pad 3 – West Pit. November 19.

ADEC. 2004. Letter from ADEC to Bryan Collver/Koreen Burrow at BPXA Regarding July 14, 2004 Inspection of BPs PBU WOA Facilities: T Pad, CC2A, and W Pad Storage Facilities. September 27.

ADEC. 2004b. Letter from Ms Leslie Simmons ADEC to Mr. Stan Gates BPXA Regarding Issuance of General Permit No. SWG0308006 for the Continued Operation of the Waste Storage Cell at the T Pad, Prudhoe Bay Unit. May 19.

ADEC. 2004c. Letter from Linda Neuchterlein at ADEC to Todd McGovern at BPXA Regarding Long Term Storage Plan Approval for Contaminated Gravels, Greater Prudhoe Bay, Pad 3 – West Pit. November 15.

Alaska Department of Fish and Game (ADF&G). 2006. Fish Distribution Database. Accessed on December 2006 from http://www.sf.adfg.state.ak.us/SARR/FishDistrib/anadcat.cfm. Division of Sport Fish.

ADF&G. 2005. Wildlife Notebook Series-Muskoxen. Accessed in January 2007 from http://www.adfg.state.ak.us/pubs/notebook/biggame/muskoxen.php.

ADF&G. 2005a. Interior Alaska Sportfishing Brochures. North Slope Area. "Sportfishing Along the Dalton Highway". Available at: http://www.sf.adfg.state.ak.us/region3/pubsR3.cfm. Last modified June 08. Retrieved on January 21, 2007.

ADF&G. 2007. Management Harvest Reports. Available at http://www.wc.adfg.state.ak.us/index.cfm?adfg=pubs.mgt. Retrieved on January 21, 2007.

Alaska Department of Natural Resources (ADNR). 2004. Regional Geology of the North Slope of Alaska. North Slope Oil and Gas Resource Series Plate 2 of 4. State of Alaska Division of Oil and Gas. June.

Alaska Department of Transportation and Public Facilities (ADOT). 1984. Engineering Geology and Soils Report, Material Site Investigations, Deadhorse Parallel Taxiway, Project Number D-10732, Northern Region. Prepared by Northern Region Design and Construction. January.

Alaska Earthquake Information Center (AEIC). 2006. Northern Alaska Seismicity Map. Accessed on December 20 from http://www.aeic.alaska.edu/maps/northern_east_map.html. Geophysical Institute, University of Alaska Fairbanks. Last updated October 2006.

Amstrup, S.C. 2000. Polar Bear. In The Natural History of an Arctic Oil Field, Development and the Biota. J.C. Truett and S.R. Johnson, eds. San Diego, CA: Academic Press, pp. 133-157.

Amstrup, S.C. and C. Gardner. 1994. Polar Bear Maternity Denning in the Beaufort Sea. Journal of Wildlife Management. 58:1-10.

Amstrup, S.C., T.L. McDonald, and I. Stirling. 2001. Polar bears in the Beaufort Sea: A 30-year Mark-Recapture Case History. Journal of Agricultural, Biological, and Environmental Statistics. 6(2):221-234.

Angliss, R. P. and R.B. Outlaw. 2007. Alaska Marine Mammal Stock Assessments, 2006. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-AFSC-168. pp. 51-56. January 1.

ARCO Alaska, Inc. 1985. Report on Releases of Hazardous Waste or Constituents From Solid Waste Management Units at the Facility, Prudhoe Bay Unit Eastern Operating Area.

ARCO Alaska, Inc. 1986. Letter: Notice of Violation and Close-Out Plan, Pingut Pad Solid Oil Material Facility. September 10.

ARCO Alaska, Inc. 1994. Pad 3 Contamination and Buried Debris, September 3.

ARCO Oil and Gas Company. 1979. Design and Operating GUIDELINES, Solid Oily Waste Storage Facility at the Pingut Pit. January.

Barrow Whaling Captains Meeting. Interviews with Jon Isaacs, Stephen R. Braund, and Karen Shemet. Dames & Moore and Stephen R. Braund & Associates. Barrow. 27&28 August 1996.

Bear, J. 1972. Dynamics of Fluids in Porous Media: New York, Dover, 784 p.

Bethel Native Corporation International (BNCI) and OASIS Environmental, Inc. (OASIS) 2005. Additional Site Assessment Report, Frontier Rock and Sand Pad, Deadhorse, Alaska. May.

Bendock, T. Beaufort Sea Estuarine Fish Study. Environmental Assessment of the Alaskan Outer Continental Shelf. Final Report of Principal Investigations. Vol. 4. Prepared by Bureau of Land Management, National Oceanic and Atmospheric Administration. OSCEAP. N.p.: BLM 1979. 670-729.

Billings, W. D., & Peterson, K. M. 1980. Vegetational change and icewedge polygons through the thaw-lake cycle in Arctic Alaska. Arctic and Alpine Research, 1, 413–432.

Britton, M. E. (1966). Vegetation of the Arctic tundra. In H. P. Hansen (Ed.), Arctic Biology (pp. 26– 61). Corvallis' Oregon State University. Carson, C. E., & Hussey, K. M. (1962). The oriented lakes of Arctic Alaska. Journal of Geology, 60, 417– 439.

Bird Life International. 2004. Numenius borealis http://www.iucnredlist.org/search/details.php/14912/all. 2006 IUCN Red List of Threatened Species. Accessed January 24, 2007.

Bond, N., Overland, J. and Soreide, N. 2007. Why and how scientists study climate change in the Arctic. Some important research concepts used by scientists to study climate change. Arctic Theme page. http://www.arctic.noaa.gov/essay_bond.html. Retrieved 1/31/2007. NOAA / Pacific Marine Environmental Laboratory

BPXA. 2001. Transmittal letter to Mr. Judd Peterson, ADEC Regarding Reserve Pit Closure Plan for East Pit of BPXA T-Pad Drill Site. June 27.

BPXA. 2002. Transmittal of Field Report for Sampling August 27 through 29, C Pad Interim Status Hazardous Waste Storage Facility (WOA), BP Exploration (Alaska), Inc., AKD#000643239, November 20.

BPXA. 2003. Letter to Ms. Terry Carpenter, U.S. Army Corps of Engineers Regarding W Pad Waste Storage Cell Prudhoe Bay Unit, Change-In-Use Notification, USACE No. 850065. December 10.

Brady, N. C. 1990. The Nature and Properties of Soils (10th ed.): New York, Macmillan, 621 p.

Brady, N. C. and Weil, R. R. 1996. The Nature and Properties of Soils (11th ed.): New Jersey, Prentice Hall, 740 p.

Britton, M. E. 1966. Vegetation of the Arctic tundra. In H. P. Hansen (Ed.), Arctic Biology (pp. 26– 61). Corvallis' Oregon State University. Carson, C. E., & Hussey, K. M. (1962). The oriented lakes of Arctic Alaska. Journal of Geology, 60, 417– 439.

Bureau of Land Management. 2005. Northeast National Petroleum Reserve – Alaska Final Amended Integrated Activity Plan/Environmental Impact Statement. January. Available from http://www.blm.gov/ak/nwnpraeis/NPRACD/StartHere.htm. Accessed December 2006.

Burgess, R. M., J. R. Rose, P. W. Banyas, and B. E. Lawhead. 1993. Arctic Fox Studies in the Prudhoe Bay Unit and Adjacent Undeveloped Areas, 1992. Prepared for BP Exploration (Alaska) Inc. by Alaska Biological Research, Inc. Anchorage: BPXA, 1993.

Burgess, R. M., and P. W. Banyas. 1993. Inventory of Arctic Fox Dens in the Prudhoe Bay Region, 1992. Prepared for BP Exploration (Alaska) Inc. Anchorage: BPXA, 1993.

Burns, J., C.B. Johnson, and S.R. Johnson. 2001. Marine Mammals. In Environmental Report for Trans-Alaska Pipeline System Right-of-Way Renewal, Trans-Alaska Pipeline System Owners.

Cameron, R. D. Distribution and Productivity of the Central Arctic Caribou Herd in Relation to Petroleum Development: Case History Studies with a Nutritional Perspective. Wildlife Research and Management. Prepared for the U.S. Fish and Wildlife Service and University of Alaska Fairbanks by the Alaska Department of Fish and Game, Division of Wildlife Conservation. Federal Aid in Wildlife Restoration Research Final Report: 7/1/87-8/31/94, Study No. 3.35. N.p.: ADF&G, 1994.

Cameron, R. D., and W. T. Smith. Development and Alteration of Caribou Movement Patterns. Federal Aid in Wildlife Restoration Progress Report. Prepared for the Alaska Department of Fish and Game, Division of Game. Projects W-22-1, W-22-2, W-22-3, W-22-4, W-22-5, W-22-6, and W-23-1. Job 3.29. n.p.: ADF&G, 1988.

Cameron, R. D., and K. R. Whitten. Seasonal Movements and Sexual Segregation of Caribou Determined by Aerial Survey. J. Wildlife Management 43.3 (1979): 626-33.

Carlson, M., Cortés-Burns, H., Flagstad, L., and Lipkin, R. 2006. Rare vascular plant species of the North Slope: A review of the taxonomy, distribution and ecology of 33 rare plant taxa that occur in Alaska's North Slope region. Final report for the Bureau of Land Management, Northern Field Office, Fairbanks, AK. February 2006. 133p.

Carruthers, D. R., S. H. Ferguson, and L. G. Sopuck. Distribution and Movements of Caribou, Rangifer tarandus, in the Central Arctic Region of Alaska. The Canadian Field-Naturalist 101.3 (1987): 423-32.

Child, K. N. The Reactions of Barren-Ground Caribou (Rangifer tarandus granti) to Simulated Pipeline and Pipeline Crossing Structures at Prudhoe Bay, Alaska. Alaska Cooperative Wildlife Research Unit, University of Alaska, Fairbanks, Alaska. Fairbanks: UAF, 1973.

CH2M Hill. 1993. Pilot Test for the Recovery of Petroleum Hydrocarbons from a Gravel Pad. Prepared for ARCO Alaska, Inc. December 14.

CH2M Hill. 1995. Task 2.3 Hanger Apron Landfill (Report). January 1995.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. Prepared for the US Fish and Wildlife Service, Washington, D.C. FWS/OBS-79/31. December.

Craig, P. C., and P. Skvorc. Fish Resources of the Chukchi Sea: Status of Existing Information and Field Program Design. Outer Continental Shelf Environmental Assessment Program. Final Reports of Principal Investigators. Vol. 63. Prepared by U.S. Department of Commerce, NOAA, Ocean Assessments Division and U.S. Department of Interior, Minerals Management Service, Alaska OCS Region. Washington, D.C.: USDOC, 1989. 1-62.

Craig, P. C., and L. Haldorson. Beaufort Sea Barrier Island Lagoon Process Studies: Final Report, Simpson Lagoon. "Environmental Assessment of the Alaskan Outer Continental Shelf. Final Reports of Principal Investigators. Part 4, Fish. Prepared by Bureau of Land Management, National Oceanic and Atmospheric Administration. Boulder: BLM, 1981.

Cronin, M. A., B. J. Galloway, J. C. Patton, W. J. Willson, and R. G. Feckhelm. Population Genetic Structure of the Broad Whitefish (Coregonus nasus) in the Central Alaskan Beaufort Sea. The 1994 Endicott Development Fish Monitoring Program. Vol. 2. Prepared by LGL Alaska Research Associates Inc. for BP Exploration (Alaska) Inc. and the North Slope Borough. Anchorage: LGL Alaska 1995.

Dau, C.P. and S. A. Kistchinski. 1977. Seasonal movements and distribution of the Spectacled Eider. Wildfowl 28: 65-75.

Dau, C.P. and W.W. Larned. 2005. Aerial population survey of common eiders and other waterbirds in nearshore waters and along barrier islands of the Arctic Coastal

Plain of Alaska, 24-27 June 2004. U.S. Fish and Wildlife Service. August 2005. 19 pp.

Dau, J. R., and R. D. Cameron. Effects of a Road System on Caribou Distribution During Calving. Rangifer. Special Issue No. 1 (1986): 95-101.

Durner, G.M., Amstrup, S.C., and A.S. Fischbach. 2003. Habitat Characteristics of Polar Bear Terrestrial Maternal Den Sites in Northern Alaska. Arctic 56(1):55-62.

Eberhardt, L. E., W. C. Hanson, J. L. Bangtson, R. A. Garrott, and E. E. Hanson. Arctic Fox Home Range Characteristics in an Oil-Development Area. J. Wildlife Management 46.1 (1982): 183-190.

Frohn R. C, K. M. Hinkel, W. R. Eisner. 2004. Satellite remote sensing classification of thaw lakes and drained thaw lake basins on the North Slope of Alaska. University of Cincinnati, Department of Geography, Cincinnati, Ohio 45221-0131, United States. Received 28 December 2004; received in revised form 22 April 2005; accepted 24 April 2005.

Frost K.J. and L.F. Lowry. 1999. Monitoring Distribution and Abundance of Ringed Seals in Northern Alaska. Interim Report, April 1998-March 1999. Juneau, AK: State of Alaska, Dept. of Fish and Game, 37 pp.

Gallaway, B. J. 1990. The 1988 Endicott Development Fish Monitoring Program; Integration and Assessment Papers. Wm. J. Gazey, et al. Prepared for BP Exploration (Alaska), Inc. and the North Slope Borough by LG, Ltd. Vol. 5. LGL, Ltd., 1990.

Geosphere, Inc. 1997. 1996 Assessment of Intrinsic Remediation in the Vadose and Saturated Zones; 100% Pad – Deadhorse, Alaska. February.

Hemming, C. 1993. Tundra Stream Fish Habitat Investigations in the North Slope Oilfields. Technical Report 93-1. Alaska Department of Fish and Game, Habitat and Restoration Division. Juneau, AK. July.

Hopkins, D. M. 1949. Thaw lakes and Thaw Sinks in the Imuruk Lake area, Seward Peninsula. Journal of Geology, 57, 119– 131.

Hopkins, D. M. 1967. The Bering Land Bridge. Stanford University Press, Stanford, Calif. 495 pp.)

Hopkins, D. M. 1949. Thaw lakes and thaw sinks in the Imuruk Lake area, Seward Peninsula. Journal of Geology, 57, 119– 131.

IUCN (World conservation Union). 1991. Dolphins, Porpoises and Whales of the World: the IUCN Red Data Book. M. Klinowsak (compiler). IUCN, Gland, Switzerland, and Cambridge, United Kingdom. viii+429 pp.

Johnson, S. 1995. Staging and Wintering Areas of Snow Geese Nesting on Howe Island, Alaska. Arctic. Vol 49:No. 1 (March 1996). Pp 86-93.

Johnson, S. R., and D. R. Herter. Birds of the Beaufort Sea. Anchorage: PBXA, 1989.

Kalxdorff, S., et al. 2002. Aerial Surveys of Polar Bears Along the Coast and Barrier Islands of the Beaufort Sea, Alaska, September – October 2001. U.S. Fish and Wildlife Service Technical Report, Anchorage, Alaska. 13 pp + Appendices.

Kalxdorff, S., and K. Proffitt. 2003. Demography and Behavior of Polar Bears Feeding on Stranded Mammal Carcasses. In: Presentation Summaries of the U.S. Department of the Interior Minerals Management Service Information Transfer Meeting, March 10, 11, and 12, 2003, Anchorage AK.

Larned, W. W., G. R. Balogh, K. Laing, R. Platte, and J. I. Hodges. Spectacled Eiders Molting and Wintering in the Bering and Chukchi Seas 1993-1995. Sixth Alaska Bird Conference, Sponsored by ABR, Inc., Alaska Department of Fish and Game, Bureau of Land Management, Institute of Arctic Biology, University of Alaska Fairbanks, National Park Service, and USFWS. Prepared by U.S. Fish and Wildlife Service, Migratory Bird Management Project. Anchorage: FWA, 1995. 35.

Larned, W. W., R. Platte, and R. Stehn. 2001. Eider Breeding Population Survey Arctic Coastal Plain, Alaska 1999-2000. Annual Report. Anchorage, AK: USDOI, Fish and Wildlife Service, 20 pp. + 38 figures.

Larned, W., Stehn, R., and Platte, R. 2005. Eider Breeding Population Survey Arctic Coastal Plain, Alaska 2005. Report for U.S. Fish and Wildlife Service by U.S. Fish and Wildlife Service. October 13, 2005. 49 pp.

Lawhead, B. E., and J. A. Curatolo. Distribution and Movements of the Central Arctic Caribou Herd. Prepared for ARCO Alaska, Inc., Anchorage by Alaska Biological Research. Fairbanks: ABR, 1984.

Lawson, D. B., J. Brown, K. R. Everett, A. W. Johnson, U. Komarkova, B. M. Murray, D. F. Murray, and P. J. Webber. Tundra Disturbances and Recovery Following the 1949 Exploratory Drilling, Fish Creek, Northern Alaska, CRREL Report 18-28. Prepared for U.S. Geological Survey. Hanover: USACE, 1978.

Lenart, E.A. 2005. Units 26B&C caribou management report. Pages 269-292 in C. Brown, editor. Caribou management report of survey and inventory activities 1 July 2002-30 June 2004. Project 3.0. Alaska Department of Fish and Game. Juneau, AK.

McDonald, T.L., S. Wolfe, P. Jensen, B. Haley, W.J. Wilson, and R.G.B. Senner. 2002. Risk assessment for a proposed spectacled eider Unusually Sensitive Area (USA), Alaska North Slope. Prepared for BP Exploration (Alaska) Inc. and PHILLIPS Alaska, Inc. West, Inc. and LGL Alaska Research Associates, Inc. 27 p.

Montgomery Watson. 1994. North Slope Gravel and Soil Baseline Characterization. April.

Montgomery Watson. 1996. Northstar Development Project, Pilot Offshore Trenching Program, Data Report. Prepared for BP Exploration (Alaska) Inc. Anchorage: BPXA, 1996.

Montgomery Watson. 2000. Final Prudhoe Bay C-Pad Hazardous Waste Storage Unit Closure Plan, BP Exploration (Alaska), Inc. Revision No. 3. August.

Morris, W. and J. Winters. 2004. December. Evaluation of stream crossing structures for providing fish passage in a tundra stream; fish sampling of Fawn Creek, Prudhoe Bay, Alaska, 2004. Technical Report No. 04-05. Alaska Department of Natural Resources, Office of Habitat Management and Permitting

Morrow, J. E. 1980. The Freshwater Fishes of Alaska. Alaska Northwest Publishing Company. Anchorage, AK. 248 pp.

National Research Council. 2003. Cumulative Environmental Effects of Oil and Gas Activities on Alaska's North Slope. National Research Council of the National Academies. The National Academies Press, Washington, D.C. March.

National Oceanic and Atmospheric Administration (NOAA). 2005. General Questions about El Niño and La Niña ENSO FAQ. Climate variability. National Weather Service, Climate Prediction Center. Available from http://www.cpc.noaa.gov/products/analysis_monitoring/ensostuff/ensofaq.shtml#CV. December 19. Accessed on January 31, 2007.)

National Snow and Ice Data Center (NSIDC). 2005. Sea Ice Decline Intensifies. Joint press release between NSIDC, a part of the Cooperative Institute for Research in Environmental Sciences at the University of Colorado, Boulder; NASA; and the University of Washington. 28 September. Available from http://nsidc.org/news/press/20050928_trendscontinue.html. Retrieved on January 31, 2007.

NSIDC. 2006. Arctic Sea Ice Shrinks as Temperatures Rise. Joint press release between NSIDC, a part of the Cooperative Institute for Research in Environmental Sciences at the University of Colorado, Boulder; NASA; and the University of Washington. 3 October. Available from http://nsidc.org/news/press/2006_seaiceminimum/20061003_pressrelease.html. Retrieved on January 31, 2007.

Nelleman, C., and R. D Cameron. Effects of Petroleum Development on Terrain Preferences of Calving Caribou. Arctic 49 (1996): 23-28.

OASIS Environmental, Inc. 2002. Kuparuk State #1 Pad 2002 Site Assessment Report. August 30.

OASIS Environmental, Inc. 2002a. Eileen West End Pad (PBU West End 21-11-12) Sampling Report. September 5.

OASIS Environmental, Inc. 2002b. Acid-Xylenes Spill Near P Pad, Site Assessment Report. February 11.

OASIS Environmental, Inc. 2002c. Tuboscope Site System Evaluation Site Assessment Report. December 20.

OASIS Environmental, Inc. 2003. West Kuparuk State No. 03-11-11, 2003 Site Assessment Report. September 24.

OASIS Environmental, Inc. 2003a. Northwest Eileen #1 and #2, 2003 Site Assessment Report. October 10.

OASIS Environmental, Inc. 2004. Highland State #1, 2003 Site Assessment Report. June 6.

OASIS Environmental, Inc. 2004a. 2004 Site Assessment and Annual Monitoring Report;, Crude Oil Topping Unit, Eastern Operating Area, Greater Prudhoe Bay. November 29.

OASIS Environmental, Inc. 2004b. Prudhoe Bay Production Reserve Pits Historical Drilling Waste Management Summary. March 16.

OASIS Environmental, Inc. 2004c. C Pad Closure Certification and Report, Western Operating Area, Greater Prudhoe Bay. August.

OASIS Environmental, Inc. 2005. 2005 Immediate Response Investigation, Cleanup, and Closure Activities, Base Operation Center Diesel Fuel Release, Western Operating Are, Prudhoe Bay Unit. October 5.

OASIS Environmental, Inc. 2005a. 2004 Site Assessment and Annual Monitoring Report, Drill Site Maintenance Shop, Eastern Operating Area, Greater Prudhoe Bay. February 3.

OASIS Environmental, Inc. 2005b. Drill Site 6, Pad 3, East Pit Removal and Closure Sampling Report, Prudhoe Bay Unit, October 27.

OASIS Environmental, Inc. 2005c. 2005 Solid Waste Facility Compliance Monitoring Report – Final, Pad 3 East Pit, November 22.

OASIS Environmental, Inc. 2005d. 2005 Solid Waste Facility Compliance Monitoring Report – Final, W Pad, November 22.

OASIS Environmental, Inc. 2006. Tract T-3C Phase II Site Assessment Report and Corrective Action Plan. February 22.

OASIS Environmental, Inc. 2006a. Term Well A Phase II Site Assessment Report and Corrective Action Plan. March 6.

OASIS Environmental, Inc. 2006b. Hurl State 5-10-13 Phase II Site Assessment Report and Corrective Action Plan. November.

OASIS Environmental, Inc. 2006c. Kuparuk 30-11-13 Phase II Site Assessment Report and Corrective Action Plan. November.

OASIS Environmental, Inc. 2006d. Pad 3 East End Phase II Site Assessment and Corrective Action Plan, March 10.

OASIS Environmental, Inc. and E2 Solutions, Inc. 2006. Tuboscope Site Water Treatment System Progress Report for 2006 Field Season. October 13.

OASIS Environmental, Inc. 2007. Drill Site 6, Pad 3, Cell 2, Closure Sampling Plan, Prudhoe Bay Unit, January.

OASIS Environmental, Inc. 2007a. Solid Waste Facility Compliance Monitoring Pad 3 Cell1 Solid Oily Waste Facility (ADEC Permit No. 9536-Ba004), October.

OASIS Environmental, Inc. 2007b. Bimetallic Nanoscale Particle Technology Pilot Test, Tuboscope Site Pilot Test Results Greater Prudhoe Bay, North Slope, AK, October.

OASIS Environmental, Inc. 2007c. Draft 2007 Solid Waste Facility Compliance Monitoring T Pad Facility, October.

OASIS Environmental, Inc. 2007d. Draft 2007 Solid Waste Facility Compliance Monitoring Drill Site 4 Grind and Inject Facility, October.

OASIS Environmental, Inc. 2007e. Draft 2007 Solid Waste Facility Compliance Monitoring Construction Camp 2A (CC2A) Facility, October.

OASIS Environmental, Inc. 2007f. Draft 2007 Solid Waste Facility Compliance Monitoring W Pad Facility, October.

Papineau, J. 2002. Understanding Alaska's Climate Variation. NWS Anchorage, Alaska. Available from http://pafc.arh.noaa.gov/climvar/climate-paper.html. Accessed on January 31, 2007.

Pollard, R. H., and W. B. Ballard. Caribou Distribution in the Prudhoe Bay Oil Field, Summer 1992. Northern Alaska Research Studies. Prepared for BP Exploration (Alaska) Inc. by LGL, Ltd. Anchorage: LGL Ltd., 1993a.

Pollard, R. H., and W. B. Ballard. Parasitic Insect Abundance and Microclimate on Gravel Pads and Tundra, and Observations of Caribou in the Prudhoe Bay Oil Field, Alaska, Summer 1992 Final Report. Northern Alaska Research Studies. Prepared for BP Exploration (Alaska) Inc by LGL, Ltd. Anchorage: LGL, Ltd., 1993b.

Pollard, R. H., and L. E. Noel. Caribou Distribution and Parasitic Insect Abundance in the Prudhoe Bay Oil Field, Summer 1993. Northern Alaska Research Studies. Prepared for BP Exploration (Alaska) Inc. by LGL, Ltd. Anchorage: LGL, Ltd., 1994.

Pollard, R. H., and L. E. Noel. Caribou Distribution in the Prudhoe Bay Oil Field, Summer 1994. Northern Alaska Research Studies. Prepared for BP Exploration (Alaska) Inc. by LGL, Ltd. Anchorage: LGL, Ltd., 1995.

Pollard, R. H., and L. E. Noel. Caribou Distribution in the Prudhoe Bay Oil Field, Summer 1995. Northern Alaska Research Studies. Prepared for BP Exploration (Alaska) Inc. by LGL, Ltd. Anchorage: LGL, Ltd., 1996.

Pollard, R. H., M. E. Miller, and R. C. Wilkinson. Caribou Distribution in the Prudhoe Bay Oil Field, Summer 1990 Final Report. Northern Alaska Research Studies. Prepared for BP Exploration (Alaska) Inc. by LGL, Ltd. Anchorage: LGL, Ltd., 1992.

PRC Environmental Management, Inc. 1993. ARCO Alaska, Inc. Prudhoe Bay Unit, Eastern Operating Area, North Slope Borough, Alaska; Resource Conservation and Recovery Act Facility Assessment Summaries and Recommendations. July 26.

R&M Consultants. 1972. Report on Laboratory Tests for Thermal and Engineering Soil Properties, Gas Arctic Systems, Prudhoe Bay Pipeline Test Site, Deadhorse, Alaska. Prepared for Battelle Columbus Laboratories. January.

Rawlinson, S. E. ed. Guidebook to Permafrost and Related Features, Prudhoe Bay, Alaska. Guidebook 5. Fourth International Conference on Permafrost. 18-22 July, 1983, University of Alaska Fairbanks. Fairbanks: UAF, 1983.

Regehr, E.V., S.C. Amstrup, and I. Stirling. 2006. Polar bear population status in the southern Beaufort Sea: U.S. Geological Survey Open-File Report 2006-1337, 20 p.

Regehr, E.V., C.M. Hunter, H. Caswell, S.C. Amstrup, and I. Stirling. 2007. Polar bears in the southern Beaufort Sea I: Survival and breeding in relation to sea ice conditions, 2001-2006. U.S. Geological Survey Administrative Report 2007, 45 p.

Reist, J. D., J. D. Johnson, and T. J. Carmichael. Variation and Specific Identity of Characteristics from Northwestern Arctic Canada and Alaska. Fish Ecology in Arctic North America. American Fisheries Society Symposium 19, B. J. Reynolds, ed. N.p.:n.p., 1997.

Reub, G. S., J. D. Durst, and D. R. Glass. Fish Distribution and Abundance. 1987 Final Report for the Endicott Environmental Monitoring Program. Prepared by Envirosphere Company for the USACE, Alaska District by Envirosphere Company. Vol. 6. Anchorage: Envirosphere, 1991.

Richter-Menge, J., J. Overland, A. Proshutinsky, V. Romanovsky, L. Bengtsson, L. Brigham, M. Dyurgerov, J.C. Gascard, S. Gerland, R. Graversen, C. Haas, M. Karcher, P. Kuhry, J. Maslanik, H. Melling, W. Maslowski, J. Morison, D. Perovich, R. Przybylak, V. Rachold, I. Rigor, A. Shiklomanov, J. Stroeve, D. Walker, and J. Walsh. 2006. State of the Arctic Report. NOAA OAR Special Report, NOAA/OAR/PMEL, Seattle, WA. 36 pp. October.

Rieger, S., D.B. Schoephorster, and C.E. Furbush. 1979. Exploratory soil survey of Alaska. U.S.D.A. Soil Conservation Service. Washington D.C. 213 p.

Rode, K.D., S.C. Amstrup, and E.V. Regehr. 2007. Polar Bears in the Southern Beaufort Sea III: Stature, Mass, and Cub Recruitment in Relationship to Time and Sea Ice Extent Between 1982 and 2006. U.S. Geological Survey Administrative Report, 28 p.

Roby, D. D. Behavioral Patterns of Barren-Ground Caribou of the Central Arctic Herd Adjacent to the Trans-Alaska Oil Pipeline. University of Alaska Fairbanks. Fairbanks: UAF, 1978.

Scott, K. M. Effects of Permafrost on Stream Channel Behavior in Arctic Alaska. USGS Professional Paper 1068. Washington: GPO, 1978.

Selkregg, L. L. Arctic Region. Alaska Regional Profiles. Prepared for the State of Alaska, Office of the Governor in cooperation with the Joint Federal-State Land use Planning Commission for Alaska. Salt Lake City: Wheelwright Lithographing Col, 1975.

Shideler, D., and J. Hechtel. Grizzly Bear Use of the North Slope Oil Fields. Proceedings of North Slope Environmental Studies Conference, 9-10 March 1995, Anchorage, AK. Anchorage: BPXA, 1995. 32.

Shur, Y. and M.T. Jorgenson. 2004. Reassessment of the Genesis of "Thaw Lakes" on the Arctic Coastal Plain in Northern Alaska, The Role of Permafrost Coasts in the Arctic System I. American Geophysical Union, 85(47), Fall Meeting. Suppl., Abstract.

Sloan, C. E. Water Resources of the North Slope, Alaska. Alaskan North Slope Geology. Vol. 1. Eds. Irv Tailleur and Paul Weimer. N.p.:n.p., 1987. 233-252.

Stehn, R., and C.P. Dau, B. Conant, and W.I. Butler, Jr. 1993. Decline of Spectacled Eiders nesting in western Alaska. Arctic 46: 264-277.

Stephenson, R.O. 2005. Units 25AB&D and 26B&C brown bear management report. Pages 284-309 in C. Brown, editor. Brown bear management report of survey and inventory activities 1 July 2002-30 June 2004. Project 4.0. Alaska Department of Fish and Game. Juneau, AK.

TERA, 1993. Distribution and Abundance of Spectacled Eiders in the Vicinity of Prudhoe Bay, Alaska: 1992 Status. Prepared for BP Exploration (Alaska) Inc. by Troy Ecological Research Associates. November 1993. 14 pp.

TERA, 1995. Distribution and Abundance of Spectacled Eiders in the Vicinity of Prudhoe Bay, Alaska, 1991-1993. Prepared for BP Exploration (Alaska) Inc. by Troy Ecological Research Associates. March 1995. 20 pp.

TERA, 1996a. Distribution and Abundance of Spectacled Eiders in the Vicinity of Prudhoe Bay, Alaska: 1994 Status Report. Prepared for BP Exploration (Alaska) Inc. by Troy Ecological Research Associates. April 1996. 15 pp.

TERA, 1996b. Distribution and Abundance of Spectacled Eiders in the Vicinity of Prudhoe Bay, Alaska: 1995 Status Report. Prepared for BP Exploration (Alaska) Inc. by Troy Ecological Research Associates. August 1996. 18 pp.

TERA, 1997. Distribution and Abundance of Spectacled Eiders in the Vicinity of Prudhoe Bay, Alaska: 1997 Status Report. Prepared for BP Exploration (Alaska) Inc. by Troy Ecological Research Associates. December 1997. 24 pp.

Troy, D. M. Bird Use of Coastal Habitats. Proceedings of North Slope Environmental Studies Conference, 9-10 March 1995, Anchorage, Alaska. Anchorage: BPXA, 1995. 16-26.

Updike, R.G. and M.D. Howland. 1979. Surficial Geology and Processes Prudhoe Bay Oil Field, Alaska, with Hydrologic Implications. Special Report 16. State of Alaska, Department of Natural Resources, Division of Geological and Geophysical Surveys. Anchorage, AK.

U.S. Army Corps of Engineers, Alaska District (USACE, Alaska). Final Environmental Impact Statement: Prudhoe Bay Oil Field, Waterflood Project. Vol. 2. Anchorage: USACE, 1980.

U.S. Army Corps of Engineers, Alaska District, and Environmental Research & Technology, Inc. (USACE and ERT). Endicott Development Project: Final Environmental Impact Statement. Vol. 2. Anchorage: USACE, 1984.

U.S. Army Engineer District, Alaska (USAED). 1998. Draft Environmental Impact Statement, Beaufort Sea Oil and Gas Development/Northstar Project, Appendix B.

U.S. Department of the Interior. Minerals Management Service (USDOI, MMS). Final Environmental Impact Statement, Beaufort Sea Planning Area, Oil and gas Lease Sale 144. OCS EIS/EA MMS 96-0012. Vol. I. Cooperating Agency: U.S. Environmental Protection Agency, Region 10. N.p.: USDOI, 1996.

U.S. EPA. 1990. BP Exploration (Alaska) Prudhoe Bay Western Operating Area, RCRA Facility Assessment, Interim Final Report. December 14

United States Fish and Wildlife Service (USFWS). 1996. Spectacled eider recovery plan. U.S. Fish and Wildlife Service, Anchorage, AK 1-157.

USFWS. 1999. Population status and trends of sea ducks in Alaska. U.S. Fish and Wildlife Service, Migratory Bird Management, Anchorage, AK.

USFWS. 2001. Designation of Critical Habitat for Spectacles Eiders and Steller's Eiders. Accessed online in December 2006 from http://alaska.fws.gov/media/SpSt_FinalDesignation.htm.

United States Geological Survey (USGS). 2002. Arctic Refuge Coastal Plain Terrestrial Wildlife Research Summaries. USGS, Biological Resources Division (BRD), Biological Sciences Report (BSR), USGS/BRD/BSR-2001-0001.

U.S. Global Change Research Program. 2003. US National Assessment of the Potential Consequences of Climate Variability and Change Educational Resources Regional Paper: Alaska. Washington, DC. October 12. Available at http://www.usgcrp.gov/usgcrp/nacc/education/alaska/ak-edu-3.htm#Environmental%20Impacts:%20Thawing%20Permafrost. Retrieved on January 31 2007.

USGS. 2006. Alaska Surface Water Data. Historical Stream Flow Data for the Sagavanirktok River (Site #15908000). Retrieved on January 5 from http://ak.water.usgs.gov/Data/swdata.htm.

URS Corporation. 2000. C Pad RCRA Storage Facility Closure Plan. August.

Walker, D. A. and W. Acevedo. Vegetation and Landsat-Derived Land Cover Map at the Beachy Point Quadrangle, Arctic Coastal Plain, Alaska. CRREL Report 81-85. Prepared by U.S. Army Corps of Engineers, Cold Research & Engineering Laboratory. N.p.: CRREL, 1981.

Walker D.A., Everett KR, Webber PJ and Brown J. 1980. Geobotanical atlas of the Prudhoe Bay Region, Alaska. CRREL Report 80-14, U.S. Army Cold Regions Research and Engineering Laboratory, 69.

Walker D.A. 1985. Vegetation and Environmental Gradients of the Prudhoe Bay Region, Alaska. CRREL Report 85-114, U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, New Hampshire.

Warnock, N.D., and D.M. Troy. 1993. Distribution and Abundance of Spectacled Eiders in the Vicinity of Prudhoe Bay, Alaska: 1991. Northern Alaska Research Studies. Prepared for BP Exploration (Alaska), Inc. by Troy Ecological Research Associates.

Watts, R. J. 1997. Hazardous Wastes: Sources, Pathways, Receptors: New York, John Wiley & Sons, 764 p.

Western Region Climate Center. 2006. Prudhoe Bay, Alaska: "Climate Summary- NCDC 1971-2000 Monthly Normals," "Monthly Total Snowfall (inches)," "Spring 'Freeze' Probabilities (Jan 1-Jul 31)," and Fall 'Freeze' Probabilities (Jul 31-Dec 31)." Available at http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ak7780. Retrieved on 12/19/2006 and 1/13/2007.

White, R. G., B. R. Thomson, T. Skogland, S. J. Person, D. E. Russell, D. F. Holleman, and J, R, Luick. Ecology of Caribou at Prudhoe Bay, Alaska. Ecological Investigations of the Tundra Biome in the Prudhoe Bay Region, Alaska. Biological Papers of the University of Alaska, Special Report Number 2. Ed. Jerry Brown. N.p.:n.p., 1975. 150-201.

Whitten, K. R., and R. D. Cameron. Distribution of Caribou Calving in Relation to the Prudhoe Bay Oil Field. Caribou and Human Activity. Proceedings of the 1st North American Caribou Workshop, 28-29 September 1983, Whitehorse, Yukon. Eds. A. M. Martell and D. E. Russell. Ottawa, Can.: Canadian Wildlife Service, 1985: 35-39.

Woodby, D.A,, and D.B. Bodkin. 1993. Stock sizes prior to commercial whaling. Pp. 387-407 IN: J.J. Burns, J.J. Montague, and C.J. Cowles (editors). The bowhead whale. Society for Marine Mammology Special Publication 2, 787pp.

Woodward-Clyde. 1998. RCRA Part B Permit Application (WOA RCRA Storage Facility). June.

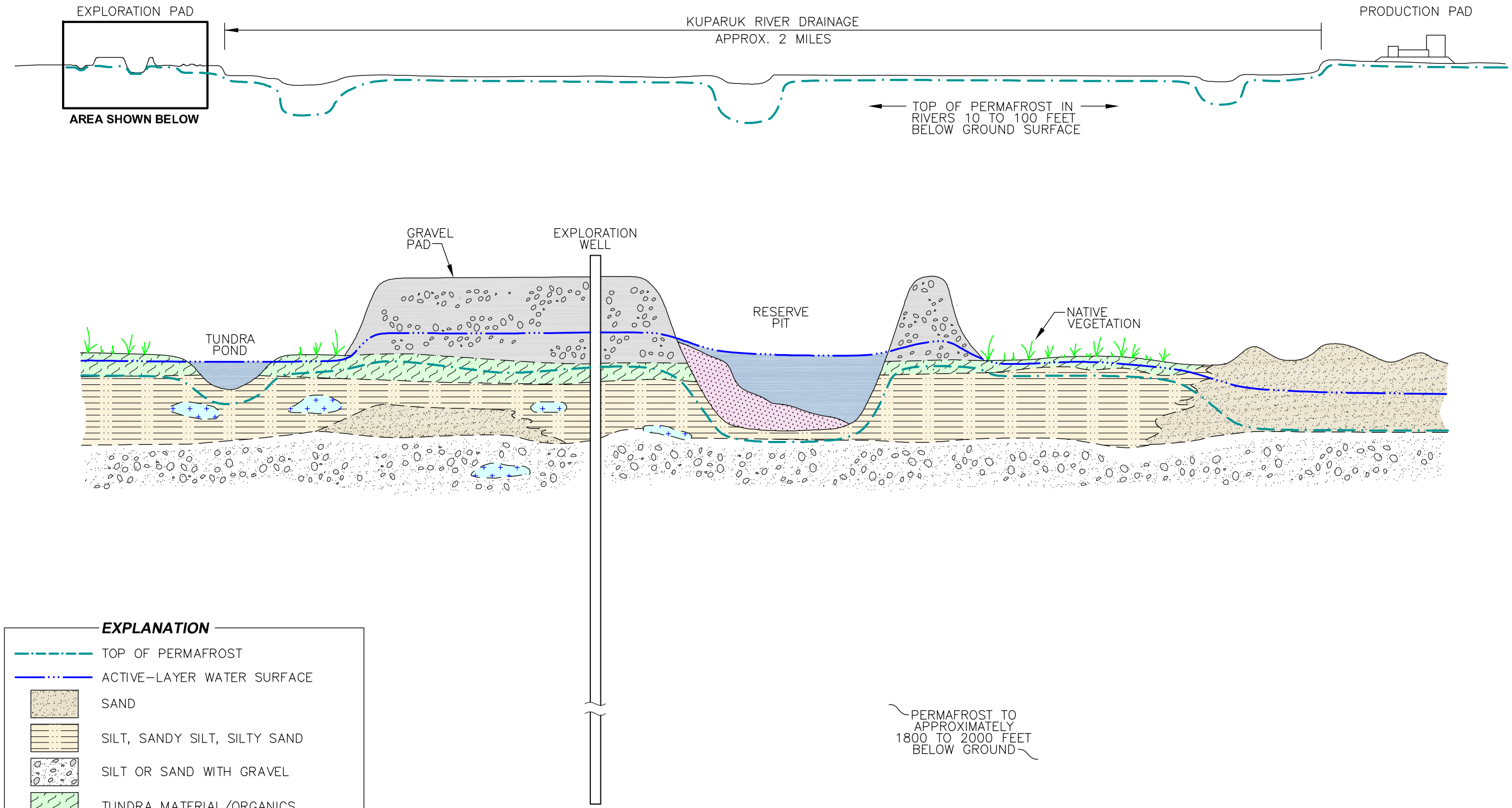
Woodward-Clyde. 1998a. Turboscope Corrective Action Plan. April.

- Page Intentionally Left Blank -

FIGURES

- Page Intentionally Left Blank -

SCHEMATIC CROSS SECTION
NOT TO SCALE



NOTE: MUST BE PRINTED IN COLOR.

FIGURE 5

SCHEMATIC CROSS SECTION OF SHALLOW SOIL STRATIFICATION

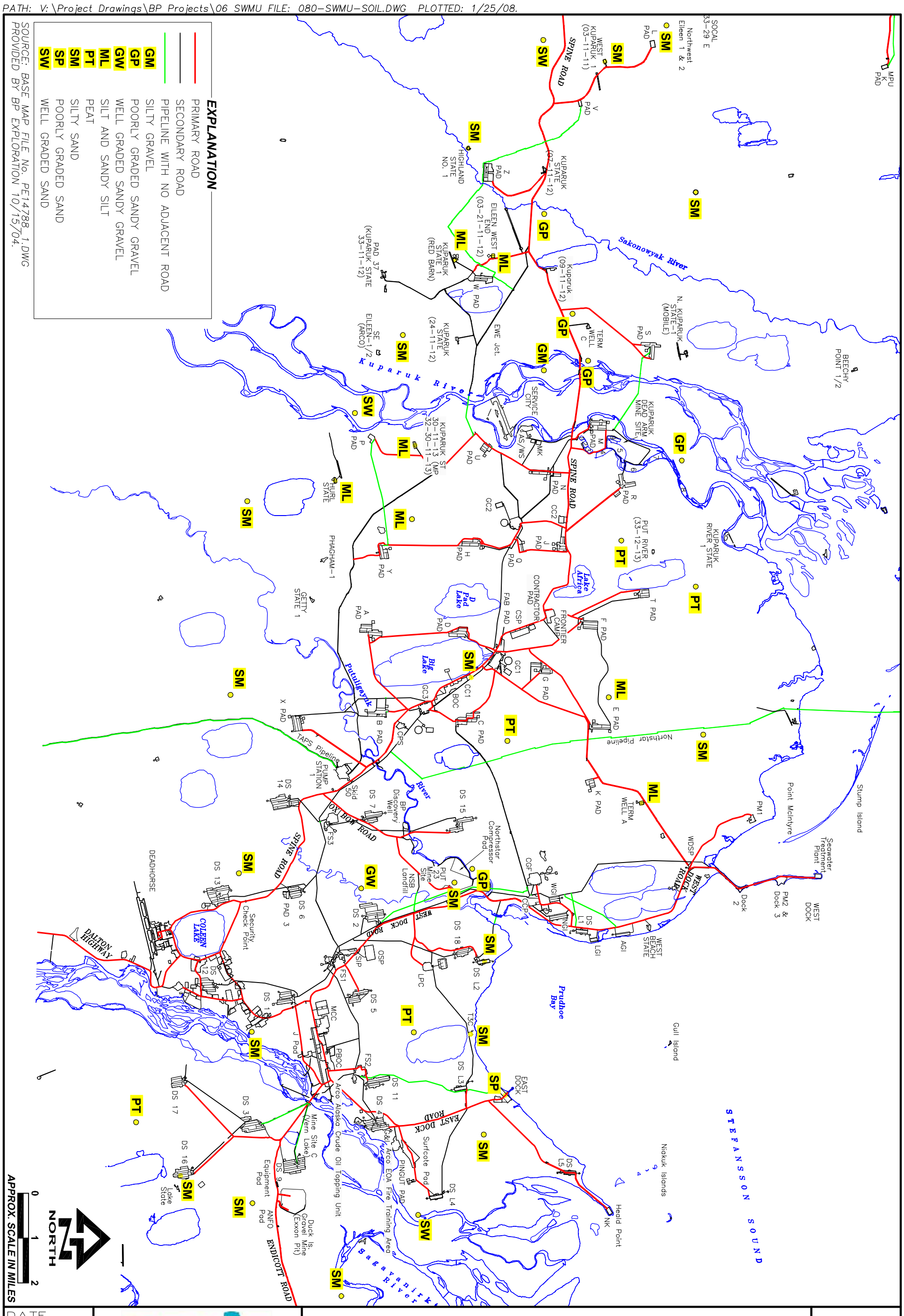
SITE-WIDE BACKGROUND REPORT
Prudhoe Bay, Alaska

oasis
ENVIRONMENTAL
825 W. 8TH AVENUE, SUITE 200
ANCHORAGE, ALASKA 99501

DATE JAN. 2008
CHKD J.R.C.
DRAWN C.E.H.
PROJ. NO 220-080

PATH: V:\Project Drawings\BP Projects\Hurl St\SWMU FILE: SLOPE SECTION.DWG PLOTTED: 1/25/08

PATH: V:\Project Drawings\BP Projects\06 SWMU FILE: 080-SWMU-SOIL.DWG PLOTTED: 1/25/08.



DATE JAN. 2008 CHKD J.R.C. DRAWN C.E.H. PROJ. NO 220-080	oasis ENVIRONMENTAL 825 W. 8TH AVENUE, SUITE 200 ANCHORAGE, ALASKA 99501	**PRUDHOE BAY AREA SOIL TYPES** SITE-WIDE BACKGROUND REPORT Prudhoe Bay, Alaska	FIGURE **4**

PBU EOA
SURFACE TOPOGRAPHY WITH LOCATIONS OF PRUDHOE BAY FACILITY SWMUs AND AOCs

oasis ENVIRONMENTAL

EXPLANATION
- ROAD
- PIPELINE
- —20— TOPOGRAPHIC CONTOUR (FEET ABOVE MSL)
- PM1 SOLID WASTE MANAGEMENT UNIT

EASTERN OPERATING AREA BOUNDARY

SEAWATER TREATMENT PLANT
WEST DOCK
POINT MCINTYRE 2 (PM-2)
DOCK 3
DOCK 2
POINT MCINTYRE
NORTHSTAR VALVE PAD
DEW LINE SITE
ARCO POINT MCINTYRE 1 (PM-1)
NORTH PRUDHOE BAY STATE No. 1
WEST DOCK ROAD
NORTH PRUDHOE BAY STATE No. 2
ABEL STATE No. 1
WEST BEACH STATE
AGI
LGI
LISBURNE 1
NORTHSTAR PIPELINE
T PAD
E PAD
K PAD
F PAD
TERM WELL A
PBU DISCOVERY WELL
WGI
NGI
FRONTIER CAMP
G PAD
ARCO CGF
NGL FLARE PIT
CGF FLARE PIT
THERMINOL SPILL
CCP
ARCO DS L2 BIOREMEDIATION
DS L2 PIPELINE SPILL TO TUNDRA
CONTRACTOR PAD
CSP
FAB PAD
GC1
CENTRAL DRILLING STORAGE PAD
BOC FUELING ISLAND MOFW BULK FUEL ISLAND
C PAD
DS 15
NORTHSTAR COMPRESSOR PAD
PUT 23 MINE SITE
DS 18
SOUTH POINT STATE 1
TRACT T3C
LISBURNE 3
EAST BAY STATE AND EAST DOCK STORAGE
EAST DOCK STORAGE CELL
EAST DOCK BIOVENTING SITE
SOUTH BAY STATE 1
EAST DOCK ROAD
PINGUT STATE 1
SURFCOTE WASTE PILE
LISBURNE 4
SAND DUNES LANDFILL
PINGUT PIT
PAD 13
D PAD LAKE
D PAD
TUBOSCOPE
BIG LAKE
GC3
CPS
NSB LANDFILL
LPC
WEST DOCK ROAD
BP DISCOVERY WELL
ARCO EOA C PAD STODDARD SOLVENT SITE
DS 11
G & I STORAGE PAD
EOA FTG
PWDW1-2
DS 5
FS2 OTL RELEASE
DS 4
ARCO DS 2
DS 7
SKID 50
ARCO PAD 10
SIP
FS1
BLDG. U-21
MCC FUEL LOADING DOCK
PBOC GENERATOR SITE
SAG RIVER STATE 1
PWDW1-1
A PAD
B PAD
OX BOW ROAD
FS3
PWDW1-3
PS 1
PUTULIGAYUK RIVER
ARCO BLDG. U-5A
ARCO COTU
ARCO DSM SHOP SITE
ARCO DSM WARM STORAGE FACILITY
ARCO HANGAR
PAD J
DS 9
DUCK IS. GRAVEL MINE (EXXON PIT)
ENDICOTT ROAD
BADAMI TIE-IN PAD
BADAMI PIPELINE
SAGAVANIRKTOK EAST CHANNEL
SAGAVANIRKTOK RIVER
X PAD
TTY STATE No. 1
PUT RIVER STATE 1
TAPS PIPELINE
SPINE ROAD
DS 14
DS 6
PAD 3 CELL 1 CELL 2 EAST PIT
ARCO PAD 3 EAST END WEST PIT
DS 1
DS 3
PUT RIVER 1,11&12(-10-14)
EQUIPMENT PAD
ANFO PAD
SECURITY CHECK POINT
DS 13 WASTE PILE
COLEEN LAKE
PUT RIVER 19-10-15 (AND SOUTH PIT)
DS 12
DS 16
LAKE STATE
DS 17
DEADHORSE
PUT RIVER 24-10-14
DEADHORSE AIRPORT
STEFANSSON SOUND
PRUDHOE BAY
GULL ISLAND
NIAKUK ISLANDS
NIAKUK 4
RESOLUTION ISLAND
ENDEAVOR ISLAND
ENDICOTT
MPI
HEARLD PT.
NK
SAG DELTA 1
LISBURNE 5
SAG DELTA 6
SAG DELTA 2
HOWE ISLAND
DUCK ISLAND

NORTH
0 1500 3000
APPROX. SCALE IN FEET

DATE	JAN. 2008
CHKD	T.J.B.
DRAWN	C.E.H.
PROJ. NO	220-080

FIGURE 3

D:\EN_W\Project Drawings\BP Projects\GIS_SWMU\Coalitia FIG 2007 CONTOURMAP.PRC PLOTTED: 1/24/08

PBU WOA
LOCATIONS OF PRUDHOE BAY FACILITY SWMUs AND AOCs
SURFACE TOPOGRAPHY WITH LOCATIONS

oasis ENVIRONMENTAL

MPU S PAD
TEXACO PRUDHOE 1
EILEEN STATE 1
NORTHSTAR VALVE PAD
DEW LINE SITE
BEECHEY POINT STATE 1/2
NORTH KUPARUK STATE 1
KUPARUK RIVER STATE 1
NORTHWEST EILEEN 1/2
L PAD
SAKONOWIAK RIVER
S PAD
KUPARUK DEAD ARM MINE SITE
PUT RIVER (33-12-13)
R PAD
T PAD
NORTHSTAR PIPELINE
E PAD
WEST SAK 24A
WEST KUPARUK STATE (03-11-11)
V PAD
TERM WELL C
M PAD
F PAD
LAKE AFRICA
SPINE ROAD
N PAD
CC2A
FRONTIER CAMP
G PAD
1C
MINE SITE B
KUPARUK STATE (07-11-12)
J PAD
CONTRACTOR PAD
CSP
GC1
MK
SERVICE CITY
AS/WS
Q PAD
FAB PAD
KUPARUK (09-11-12)
SPINE ROAD
Z PAD
GC2 OTL RELEASE
BOC FUELING ISLAND MOFW BULK FUEL ISLAND
CENTRAL DRILLING STORAGE PAD
C PAD
1D
1M/MPI
EILEEN WEST END (03-21-11-12)
W PAD DRILLING STORAGE CELL
U PAD
D PAD LAKE
CC1
TUBOSCOPE
H PAD
D PAD
BIG LAKE
HIGHLAND STATE NO. 1
KUPARUK STATE (24-11-12)
KUPARUK ST 30-11-13 (MP 32-30-11-13)
GC3
KUPARUK STATE 1 (RED BARN)
CPS
Y PAD
B PAD
SE EILEEN STATE 1/2
A PAD
PUTULIGAYUK RIVER
PAD 37 (KUPARUK STATE 33-11-12)
P PAD
KUPARUK RIVER
HURL STATE (5-10-13)
PS 1
PP
PRUDHOE BAY UNIT (31-11-13)
X PAD
GETTY STATE No. 1
TAPS PIPELINE
PUT RIVER STATE 1
WESTERN OPERATING AREA BOUNDARY

NORTH
0 1500 3000
APPROX. SCALE IN FEET

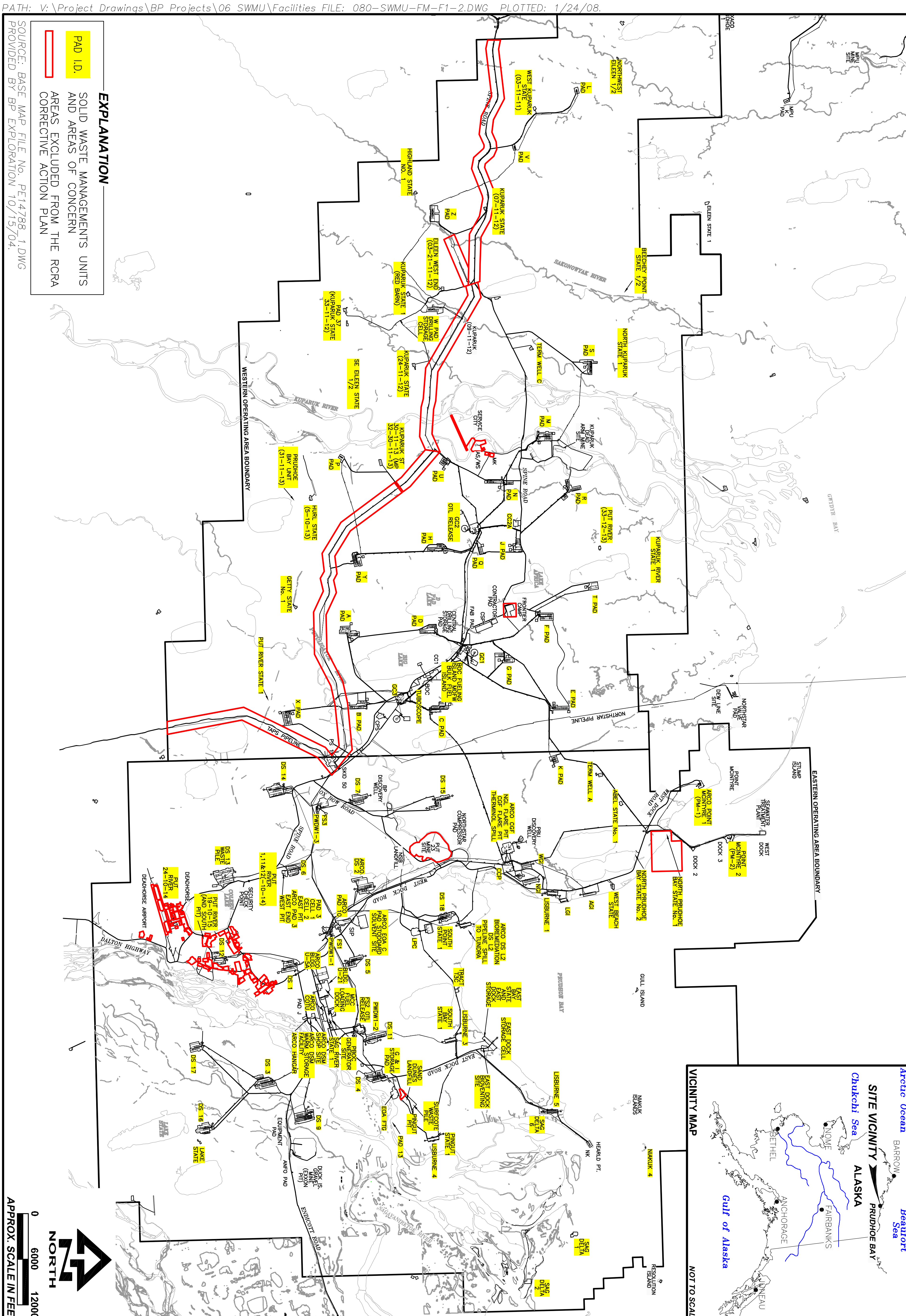
EXPLANATION
- ROAD
- PIPELINE
- 20 TOPOGRAPHIC CONTOUR (FEET ABOVE MSL)
- GC2 SOLID WASTE MANAGEMENT UNIT

DATE NOV. 2007
CHKD T.J.B.
DRAWN C.E.H.
PROJ. NO 220-080

FIGURE 2

G:\Projects\Drawings\GIS Projects\06 SWMU Facilities.PLE 2007 CONTOURMAP.mxd PLOTTED: 1/24/08

PATH: V:\Project Drawings\BP Projects\06 SWMU\Facilities FILE: 080-SWMU-FM-F1-2.DWG PLOTTED: 1/24/08.



oasis ENVIRONMENTAL	DATE: JAN. 2008 CHKD: J.R.C. DRAWN: C.E.H. PROJ. No.: 220-080 825 W. 8th Ave., Anchorage, AK 99501, (907) 258-4880	**PRUDHOE BAY FACILITY** **RCRA FACILTY MAP** SITE-WIDE BACKGROUND Prudhoe Bay, Alaska	FIGURE 1

SPECTACLED EIDER BREEDING-PAIR SIGHTINGS IN THE PRUDHOE BAY UNIT

FIGURE 8

SITE-WIDE BACKGROUND REPORT
Prudhoe Bay, Alaska

EXPLANATION

AREAS EXCLUDED FROM RCRA SPHERE OF AUTHORITY WITHIN THE PRUDHOE BAY UNIT

SPECTACLED EIDER BREEDING-PAIR SURVEY SIGHTINGS IN THE PRUDHOE BAY UNIT

1991 1992 1993 1994 1995

SOURCE: BASE MAP FILE No. PE14788_1.DWG PROVIDED BY BP EXPLORATION 10/15/04. EIDER SURVEY INFORMATION FROM TERA 1996B TROY ECOLOGICAL RESEARCH ASSOCIATES 1995 STATUS REPORTS.

NORTH

0 6000 12000

APPROX. SCALE IN FEET

DATE: JAN. 2008
CHKD: J.R.C.
DRAWN: C.E.H.
PROJ. No.: 220-080

825 W. 8th Ave., Anchorage, AK 99501, (907) 258-4880

oasis ENVIRONMENTAL

PATH: V:\Project Drawings\BP Projects\06 SWMU\Facilities FILE: 080-SWMU-FM-F8.DWG PLOTTED: 1/25/08

APPENDIX A

PBU Release Reporting Summary Tables

Table A-1: 1970 – 2006 Spill Data – BPXA

Table A-2: 1970 – 2006 Spill Data – ADEC

- Page Intentionally Left Blank -

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/17/97	1997-IR-98726	Drill Site 04	Seawater	757,598	Freshwater and diluted seawater broached to the surface around 9 wells at DS4. An investigation was conducted and reports were provided to agencies on 3/25/97.	"A trimmer, loaders and dumpstrucks were used to remove and haul 31,430 cu. yds. from the DS4 reserve pit to the DS16 lined pit. - Meltwater was injected inot Class II wells during May and June."		Freshwater and diluted seawater broached to the surface around 9 wells at DS4. An investigation was conducted and reports were provided to agencies on 3/25/97.
6/1/91	1991-IR-97441	Flow Station 2	Produced Water	356,961	Sandjet block valve failed & cracked open.	YES -		Sandjet block valve failed & cracked open.
12/19/06	2006-IR-2092541	GC-2, GC-2 Tank 8511, GC2/SAT	Produced Water	255,151	T8511 Skim Tank Leak to secondary containment	Vac trucks were used to recover free-standing liquid within the containment area. The 2-gallons that leaked out of containment was removed with shovels and chipping bars. The area was then covered and heated to allow more shoveling. Mechanical recovery and flushing operations were the primary clean up methods used.Update on 12/24/2006: Approximately 155 barrels of Fire water off a hydrant was used to remove ice build up on facility pipework. Hot water was used out of a vac truck with a fire hose to melt contaminated ice in the containment pit and approximately 2235 barrels were applied. The water and spill material was then being recovered with vac trucks. Mechanical recovery was performed inside the pit using a Bobcat with trimmer, loader with rake & bucket, hand tools, jack hammers and a dump truck to transport material.Update 1/10/07: The clean up operations have been completed. No material has leaked out of the tank in last 7 days. The tank was monitored by a Spill Responder on Day shift and one Spill Responder on night shift with a vac truck on standby until the tank blinding was completed.	The recovered liquids have been placed into the GC-2 facility system. Contamintated snow and gravel has been taken to the Grind & inject facility. Contaminated ppe and absorbent material has been taken to an approved NSB oily waste dumster.	12/24/2006 Update: When tank was at leak interface, a visual estimation was agreed upon by ACS, ADEC and BP Representatives on site of a volume of approximately 3 barrels of crude oil that had been spilled into containment pit. Operations crews were unable to completely drain tank due to a high sand content plugging drain lines. Operations will move forward with alternate plans to remove remaining sand inside Tank 8511. While tank was still leaking, approximately 5050 barrels of fire water was added to skim oil inside tank using a 6" port near the lower portion of tank. The produced water, crude oil and firewater was then drained into a spicer tank. Approximately 2915 barrels of fluid have been removed from spicer tank during this operation. Note known volume of firewater added to pit during ice build up removal only (155 barrels) and known volume of hot water added from vac trucks to pit (2235 barrels) is not included in spill volume as it was in previous report, therefore it is a lower number than previously reported. Total volume of firewater added to tank (5050 barrels) while it was leaking is counted as part of spill volume in this report.1/12/07 Area that spill occured outside of secondary containment was sampled at 3 locations with 1 background sample at request of ADEC. Results from these samples were well below ADEC clean up standards. These results were faxed to ADEC on 1/24/07. Update 2/12/07. Tank is blinded and hole has been exposed. An investigation team has been organized and began to identify cause of damage. As part of investigation they will provide recommendations on how to repair damaged tank. Lined area under tank will be visually monitored during break up. Once snow begins to melt, fluids will be recovered with vac truck.
3/2/06	2006-IR-1762300	GC-2, GC2/SAT	Crude Oil	200,999	A crude oil spill from a transit line was discovered at approximately 6:00 am. The source of the spill is a 34inch diameter oil transit line between Gathering Center 2 and Gathering Center 1. The spill was reported immediately and the GC-2 facility is initiating shut-down and freeze protection activities. Both the North Slope IMT and the Anchorage BST have been activated to assist with Spill Response. Additionally, a Joint Incident Command has been established and includes representatives from BP Alaska, EPA, ADEC and the North Slope Borough Note: The volume in the Material Release screen is still considered an estimate pending final confirmation by ADEC. Once ADEC has confirmed the volume, the incident report will be updated.	Impacted area has been cleaned using heavy equipment and hand tools; cleanup action included removal of free liquid oil, contaminated snow, and contaminated organic matter (frozen tundra). Specific activities included excavation and "trimming" of the area to remove all contamination.	The oil has been collected and held in holding tank at FS2 where it will be recycled back into the process.	The final volume of material spilled and recycled will not be determined until all material has been melted and reintroduced into tank at FS2; the oil will then be recycled with ADEC concurrence, and a final spill volume will be calculated. On 5/27/06 a sheen was noticed on the SW edge of Q-pad lake. ADEC and NRC was contacted. NRC# 798784. Clean up was not conducted immediately per ADEC's request.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/21/00	2000-IR-95296	GC-2 PWH Section	Crude Oil	30,027	A Produced Water handling section shutdown occurred when the PLC communications glitched, stopping essential equipment. The initial unexpected and abrupt s/d tripped equipment; pumps, vapor recovery compressors, etc., off line just before 0600. While Operations were responding, a second event occurred that would not allow resets for re-starting equipment. In the meantime, Process Automation Controls technicians had been dispatched for assistance. Immediately following the second communications failure, the PCC Controllers were notified and asked to react by rapidly shutting in production to the facility. At approximately 0630 the GC-2 Rover called into skid 7 that T-7703 was overflowing. Simultaneously, gas detection alarms were ennunciated in nearby process modules. Operations personnel withdrew from the immediate area and remote source control was initiated. This was difficult and questionable due to the unstable state of the controls communications. The Skid 7 DCS Operator was instructed to call 222 for initiating an ERT response.	Crude oil was sucked up into Vac Trucks.	22050 gallons recycled at Flow Station-1/ 7980 gallons disposed of at Pad-3 Facility.	Initial report was called in to agencies.
6/18/04	2004-IR-944033	Flow Station 2, Flow Station 2 Module 4938, FS2/COTU	Produced Water	28,350	Upon plant re-start, flooding, and re-pressurization, produced water turbine/pump 15-105 located in module 4938, was started to reduce water levels in the PWI suction tank, tank 15-1951. The operator was managing his PWI tank levels by increasing the speed on pump 15-105. As the level in the 1951 tank continued to climb, the operator increased the pump speed and the pump discharge pressure increased along with the speed. The high pressure alarm, P315S, sounded at 2625 PSIG. Before the operator could respond to the high pressure alarm, the 6" TK manual isolation ball valve's actuator failed and detached from the valve body allowing the process fluid to release into the module. No evidence of the High High pressure switch activation at 2750 PSIG or actuation of the PSV valves set at 2760 PSIG. Reference drawing MPE-163801. The released PWI fluid flowed into the entire PWI section and on the gravel pad under the modules.	Spill response and operations personnel performing clean up activities, including vacuum trucks collecting free fluids from pad, tundra and module and removal of oil-contaminated gravel using hand tools and heavy equipment	First three vac truck's with Recovered fluids were sent to the FS2 slop tank to be recycled through the production facility. The following two were sent to Pad 3 for disposal. Oily sorbent, boom, rags, etc. will be incinerated as solid oily waste through the North Slope Borough facility. Oil-contaminated gravel was sent to the BPXA Drill Site #4 Grind and Inject Class II disposal facility.	Volume estimation was performed by site engineer and operations personnel. Final estimation was based on the following: Approximate module measurement = 30' x 42'. Approximate depth of released material at N wall = 12". Approximate depth of released material at S wall = 28". Conservative depth measurement used in calculation of released material = 24". Volume estimation of material inside module = 18,900 gal. Conservative multiplier to include approximate volume of material leaked from module to gravel pad = 1.5. Total estimated volume released = 28,350 gal. Approximate average of oil in produced water system at FS2 is 800 ppm. Note that produced water released from the facility system flowed off the pad onto the tundra and co-mingled with existing stormwater at that time. Because the released material was not carried off the pad by stormwater run-off, this was not considered a 'storm water spill' as defined by the existing BPXA NPDES storm water permit.
9/26/93	1993-IR-89051	GC-2 PWX Section	Crude Oil	27,302	Following the 'B' Sulzer shutdown, we had high water levels in all the tanks. PCC had made several rate cuts but the levels continued to rise up to 35 feet. Then T7703 skim tanks outlet valve closed, there were no alarms and we thought it was caused by a card being removed in the 407 PCM cabinet. The DCS man closed the inlet, while PWX handjacked the outlet valve opened, but during this time it overflowed oil into the glycol overflow pot and into the containment dike. The high winds carried a light oil mist onto the snow outside the dike and on the outside of skid 484 and 490. A vac truck cleaned up the oil in the dike and Hot Oil has finished cleaning the building. The total estimated overflow into the dike was 650 bbls.		Fluids were returned to the crude oil system. Contaminated ice, snow & gravel were taken to Arco Pad 3.	Sulzer pump failure caused an overflow of Tank 7003.
9/2/71	1971-IR-95980	COTU Facility, Not specified	Diesel	21,198	Tank leak	Not specified	Not specified	Not specified
7/28/89	1989-IR-96736	Flow Station 2, Not specified	Produced Water	20,998	Actuator and bonnet upstream of dischared header broke off.	Not specified	Not specified	Not specified
6/17/76	1976-IR-95988	G&I Facility, Not specified	Diesel	20,998	Gas well7 blew	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/20/04	2004-IR-1176473	BOC, BOC KITCHEN SKID SPACE, Non Process Area	Sewage	18,915	Wastewater leaked out of grease trap located in the skid under the BOC kitchen. This was due to the kitchen sump level control failing to indicate high level. Failure of the Level Controller allowed the level in the tank to raise too high. This, in turn, caused the sewer line and grease trap line to back up through the grease trap and into the skid space below the kitchen. The wastewater eventually starting leaking out of the skid space into secondary containment and onto the pad under the building . Due to phase 2 weather conditions for several days, normal outdoor activities did not allow observation of the event until the weather cleared. When the weather cleared maintenance personnel clearing snow immediately observed the spill. SRT was notified right away and spill clean up plans and job site preparation were begun.	Free standing liquids in secondary containment have been recovered with sewage trucks. Clean up crews are trying to recover frozen material with heavy equipment but this is difficult due to the spill being underneath the building. We are also trying a hotwater flush in the containment area to recover frozen material. If the above tactics do not work we may try to jackhammer the material up. All free liquids will be recovered with a vac truck. Frozen ice will be hauled in a dump truck to T-Pad storage pit.	Contaminated fluids recovered with the intial sewage truck have been taken to the sewage treatment plant. Fluids recovered with hot water flush and vac trucks will be taken to pad-3 for dispoal. Contamimated Ice and snow will be taken to T-pad storage pit for storage. This material will eventually be melted and taken to Pad-3 disposal facility.	
8/22/81	1981-IR-96057	COTU Facility, Not specified	Diesel	18,898	Connection failed	Not specified	Not specified	Not specified
12/30/93	1993-IR-97407	Drill Site 05	Crude Oil	15,748	Wind stress caused the separation of the flowline leading from the well to the manifold bldg. Low pressure safety system was disabled at the time of the incident. One barrel was off pad - remainder on pad. - ongoing Monitoring	SEE DS5 Spill File - SEE DS5 Spill File		Wind stress caused the separation of the flowline leading from the well to the manifold bldg. Low pressure safety system was disabled at the time of the incident. One barrel was off pad - remainder on pad. - ongoing Monitoring
12/22/89	1989-IR-96296	Drill Site 11, Not specified	Seawater	14,908	"Line leaked at a weld joint, suspect caused by corrosion."	Not specified	Not specified	Not specified
3/7/94	1994-IR-86384	WSW	Seawater	13,439	Reference: LCIR 94-PBU-0313 (Property Damage): Seawater system was shut down. Operations lined up produced water to the F-Pad injection wells. An isolation valve separating the Seawater and Produced Water systems leaked. This allowed 1800 psig Produced Water into the Seawater system. A set of "crossover" valves between the injection pump suction and discharge lines was open allowing the suction piping to pressure up until it burst. This spill consisted of 13,440 gallons of seawater which blew our a portion of the exterior wall causing a spill on the pad.	Used 350 case dozer to scrape frozen contaminated ice and snow out from under skid.	All removed ice and snow was taken to Arco Pad 3 melt pit.	Sea Water system was shut down. Operations lined up produced water to the F-Pad Injection wells. An isolation valve, separating the SW and PW systems leaked, allowing 1800 PSIG PW into the Sea Water system. A set of "crossover" valves between the injec
11/7/95	1995-IR-90985	Well Pad Y	Seawater	12,599	Y-7 seawater injector developed a leak in the "kill flange" on the lateral line. Corrosion had undermined the RTJ gasket, causing the leak. Discovered and reported by pad operator during routine monitoring. At time of report, cleanup is still under way and total volume is unknown. It is estimated to be more than 300 barrels of seawater.		The seawater was taken to Arco Pad 3.	Corrosion caused the gasket to fail on a blinded seawater flowline, behind Y-7. All of the seawater spilled into the reserve pit directly behind Y-7.
6/16/01	2001-IR-101690	Drill Site Maintenance, Drill Site Maintenance	Fresh Water	11,000	A PVC pipe which was transferring wastewater from three washing machines located in the DSM building to a lift station in an adjacent building was severed due to snow/ice fall from the roof of the those buildings. There is no information available on when the pipe was severed. However, the spill was discovered on June 16, 2001. As such, it was assumed that the pipe was sheared 30 days ago. Based on the average use of these washing machines, the total spill volume was estimated at 11,000 gallons. The spill was discovered by the VECO dispatcher working in the DSM building. The spill was promptly reported to BP security, and the Alaska Department of Environmental Conservation was notified within the 24-hour reporting timeline specified in the wastewater regulations. The spill was not caused by human performance difficulty. However, its occurrence prompted BP-HSE staff members and contractors who utilize and maintain the DSM building to consider and initiate measures that would prevent future occurrence of this type spill at this location. Due to material spills, ADEC did not consider this a "reportable" spill. Classification changed from Spill to Leak per discussion with Environmental Team Leader 6/27/2001.	All water was absorbed into the pad. At ADEC's verbal direction SRT covered the spill area with lime.	None.	Information provided to ADEC as per 18 AAC 75.300.
11/1/96	1996-IR-98304	Seawater Injection Plant	Seawater	9,694	"Unknown, but suspect blind at isolation point corroded. Investigating."	Metis/Cleanup		"Unknown, but suspect blind at isolation point corroded. Investigating."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/20/01	2001-IR-100561	Well Pad D	Crude Oil	9,449	D-pad 6" flowline number 86 ruptured during a thawing / displacement operation which involved pumping dead crude into the flowline. MEOH had previously been pumped into the line at several locations. The line rupture occured between D-pad and GC-1. Fluids in the flowline at the time of breech flowed under the snow , at the edge of the access road. The contaminated area is still being deliniated , though it is obvious there has been migration. The actual volume spilled is still being determined , based on the amount pumped and flowline capacity it is anticipated to be in the 100 - 200 bbl range.	Heavy equipment and labor crews currently working.	Fluids are being sent to the Pad 3 Class I injection well for disposal. All snow and ice	Additional updates will be sent out. ADEC representatives have been insight monitoring clean up operations.
8/19/06	2006-IR-1947504	Well Pad S, S-pad reserve pit, GC2/SAT	Seawater	8,694	A BPXA Contract employee was hauling approximately 220 bbls of water containing 1% KCL to support a down-hole pumping operation on well S-104. Upon arrival to the well pad intersection the driver made a wrong turn, which took him to an unidentified restricted area on a reserve pit access road. While entering a ninety degree turn the trailer wheels bogged down on a soft shoulder causing the trailer to roll over and recoil the top cab of tractor onto the road. The contract employee sustained multiple fractures to the left shoulder and upper arm. The injured employee had to be extracted from the cab of the tractor and transported to the BOC medical clinic for further medical evaluation. The employee was med-a-vaced to Anchorage Providence Hospital to receive further treatment.	A sump was dug using handtools and a vac truck was used to recover the liquids as they leaked from the tanker. Shovels were used to remove contaminated gravel from the access road. Another vac truck was used to skim the material from the containment boom.	All the liquids and gravel went to Pad 3.	The verbal notification was made on 08/19/06 by the GPB WOA environmental advisor at approximately 09:30am.
8/6/06	2006-IR-1936061	Flow Station 2, OIL TRANSIT LINE FROM FS2 TO FS1 - APPROXIMATELY 1/4 MILE FROM FS2 PAD. , FS2/COTU	Crude Oil	8,358	Following a smart pigging test, CIC did a follow-up inspection of the oil transit line from FS2 to FS1. The field crews identified areas of potential leakage from the pipe. Shutdown of the pipe was initiated and during the shutdown, crews observed leakage from a location on the lines, approximately ¼ mile from the FS2 pad.	Fast tanks were placed under the leaking pipe to catch fluids, which were then transferred to FS 1 for hydrocarbon recycle in vac trucks. Shore seal boom was placed around the perimeter of the spill to prevent migration of oil from the spill site. Rope mop skimmers and vac trucks were used to recover crude oil from the surface of the tundra water. These fluids were stored in open top tanks to allow phase separation, measurement, and calculation of quantities recovered. As free product recovery slowed, weed burners were used to remove remaining oil and oiled vegetation from the spill site.	Approximately 8,165 gallons of crude was recycled back into the production stream. The approximate 193 gallons remaining on the tundra was removed using propane weed burners. Decanted oily water was disposed of at Pad 3.	This is the final report.
1/4/94	1994-IR-88261	Well Pad M	Seawater	8,239	M-Pad Skid 54 was found to have water leaking by control tech. Pad operator shut-in pad, 0805. It was determined that M-28 was leaking through body bleed valve. Skid was full of seawater with small amount of oil from sump. Skid contained most of oil, estimated 4-5 gallons of oil spilled on pad with 250 gallons of seawater. M-28 block valve removed and replaced and put back in service. Oil wells back in service at 0900. Enviromental on pad cleaning up spill. Plant inspection verfiy intergry of piping. prior to placing back in service.		Contaminated ice, snow and gravel were taken to ARCO Pad 3.	
12/24/93	1993-IR-86559	GC-2 Pad	Crude Oil	7,559	The level transmitter, high level alarm, and automatic shut off devices froze up on Tank # T-0208511, allowing crude to flow out of the overflow line. This remained undetedted for an undetermined amount of time. The crude flowed into the lined area surrounding the tank. Vac trucks were used to remove approxiamately 90% of the standing crude. Modules and surrounding structures were pressure washed and fluids removed with a vac truck. Crews with shovels and rakes scraped up contaminated gravel and used wheel barrels to remove contaminated gravel. Contaminated gravel was disposed of at AT Arco Pad 3. Used sorbents were taken to NSB for incineration. Crude and water that was vaced up was re-injected at the dirty water system at GC-2. Positive indicators were installed to show that pan heaters were operational.		Exempt contaminated gravel was disposed of AT Arco Pad 3. Used sorbents were taken to NSB for incineration. Crude and water that was vaccd up was re-injected at the dirty water system at GC2.	The level transmitter, high level alarm and automatic shut off devices froze up on tank # T-02-8511, allowing crude to flow out of the overflow line. This remained undetected for an undetermined amount of time. The crude flowed into the lined area surro
5/19/97	1997-IR-98682	Pad 10	Diesel	7,559	A needle valve broke from the fill line on a diesel storage tank causing the diesel to drain into a lined containment area.	A Vacuum truck was used to remove the fluids from the lined pit. The meltwater was removed soon after it melted in the pit. - Fluids were taken to Flow Station 1 recycle on 5/20/97. Contaminated gravel was taken to Pad 3 West Pit on 7/12/97. Addit		A needle valve broke from the fill line on a diesel storage tank causing the diesel to drain into a lined containment area.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/8/07	2007-IR-2219377	Drill Site 05, DS5 access road. Off pad to tundra and frozen pond., FS1/SIP/STP	Diesel	6,930	On April 8, 2007 at approximately 0908 a VECO employee was driving diesel tanker # 82180/39017 transporting 290 BBLs of diesel from COTU to DS- 5. The operator stopped on the access road of DS- 5 to request access to the pad. After receiving permission by the pad operator the VECO employee proceeded to drive the vehicle down the access road. While driving towards his destination the employee stated that his contact lens in is right eye slipped out of position causing discomfort which forced him to temporarily close his eye. As this occurred the operator applied the brake and pulled the truck from gear in attempt to stop the vehicle. While trying to pull the vehicle to the side of the road the operator stated that he felt the right front passenger side tire of the tractor pull hard to the right off the edge of the road. This caused the tractor trailer combination to roll over on to its side ending up off the road on the ice covered tundra that borders the roadway. As a result of the incident the manhole cover on top of tanker broke lose, spilling approximately 165 BBLs of diesel onto the snow-covered tundra. After the truck stopped the operator immediately turned off the vehicle and called dispatch from inside the cab and all proper notifications were made. At the time of the conversation the operator told dispatch that he was not hurt and that he did not know if there was any fluid release as a result of the incident. Next the operator was able to remove himself from the vehicle with no assistance. He later went to the clinic for an evaluation for shoulder discomfort.	Free liquids recovered with a vacuum truck. Contaminated snow removed from the spill site and melted. Contaminated ice from the pond excavated and melted. The tundra surface was flushed, burned with weed burners, and trimmed. Sample results indicate the cleanup is complete.	Recovered liquids (free product and snowmelt) taken to Flow Station 1 to be recycled. Contaminated solids (tundra vegetation, gravel, soil) taken to Pad 3 or T-Pad for storage pending thermal remediation. Solid waste streams verified non-hazardous prior to disposal.	Site cleanup and sampling complete. Delta boom placed around entire spill site with a layer of absorbent boom inside the delta boom. Passive hazing, scare eye balloons, Mylar streamers, etc. set up. Continue to monitor. No sheen observed at the site on July 4, 2007. NOTE: This is the Final Report.
8/1/02	2002-IR-280042	Lisburne Production Center, Lisburne Production Center Module 4923	Produced Water	6,300	The Sand Bin overflowed when the shut off valves for the Sand Accumulator associated with LP Desander #2214 failed to isolate the PW inflow. A high alarm in the Sand Bin annunciated at approximately 16:04. Operators responded to the alarm to determine source. Level kept building until the Sand Bin overflowed into the enclosure sump. At 16:15 a high level in the sump initiated an OSD. This OSD automatically shuts all the dump control valves (KxxAV/BV/CV) associated with the 12 Sand Accumulators (8 in HP and 4 in LP service; a total of 36 valves). The Sand Accumulators are located immediately upstream of the Sand Bins and downstream of the Desanders. SetCim indicated that all valves had gone closed yet PW flow continued. Operators continued searching for the valve(s) that were not holding by manually stroking all of the control valves. Approximately 30 minutes later, two valves one located upstream and one downstream of the Sand Accumulator for LP Desander # 2214, K067CV and K067AV respectively, were found to have mechanically failed and were leaking by. With these valves failing to hold, the upstream block valve was then manually closed. The valve required greasing and backseating in order for it to hold. This took an additional 15 minutes. With the block valve now holding, the inflow of PW into the Sand Bin was effectively shut off. As the overflow was occurring, personnel were simultaneously mitigating the spread of the PW on the pad to minimize the potential of fluid migrating off pad. It should be noted that during the facility shutdown activity that took place during the Alyeska Prorate of 27/07/2002, the integrity of both K067AV and K067CV was verified. While it was found that K067CV had a washed out ball (parts on order 31/07/2002), K067AV was found to be holding a tight shutoff. Update 03/08/02: K067CV and K067AV were removed from service. K067CV was found with no additional damage than what was found when inspected during the shutdown activity. K067AV was found with a 9" long 1/4" SS Tubing lodged between the valve disc and the seat.	Recovered material with loader and backhoe then placed into dump box for disposal at G&I.	500 cubic yards of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initial report submitted on 8/2/02.
1/5/90	1990-IR-96955	Seawater Injection Plant	Seawater	6,299	Unsecured hatch allowed discharge while filling tank with a vacuum.	YES -		Unsecured hatch allowed discharge while filling tank with a vacuum.
3/6/01	2001-IR-100963	Surfcoat Pad	Drilling Mud	5,880	Flowline between G&I plant and middle injection well developed a leak due to erosion of the pipeline. The erosion caused a hole approximately 3/4" in diameter in the branch of "T" section to the middle well. Early estimates are that the leak is less than 400 barrels. At the time of the incident, the pipeline contained 1200 psi of pressure pumping approximately 22 barrel per minute. G&I Plant operators had checked the well at 0900 hours. No abnormalities were observed at that time.	Used hand tools to recover product and placed into snowmachine trailers for transport to bulk loading location	Contaminated materials taken to Grind and Inject for reinjection	Spill is cleaned to ADEC rep (DeRyter) satisfaction on 3/8/2001. This information is being provided to ADEC per 18 AAC 75.300
2/8/93	1993-IR-98098	Drill Site 03	Seawater	5,585	Valve seal on seawater injection line.	Metis/Cleanup		Valve seal on seawater injection line.
12/4/04	2004-IR-1152689	Well Pad Z, Booster Pump Suction Valve off Produced Water Pipeline at Z-Pad., GC2/SAT	Produced Water	5,250	10" ball valve on a Produced Water pipeline at Z pad was leaking from body flange. Well pad operator around 1015 hrs Dec 4th 2004 discovered the leak. The pipeline was shut down and de-pressured. SRT was contacted and clean up operation commenced. All agencies were notified.	Free standing liquids were recovered using vac truck. Clean snow around spill area was used build a containment berm. Warm water was used to flush affected tundra and a vac truck recovered liquids.	Recovered liquids were taken to GC-2	This is a final report. The initial spill occured 12/04/05.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/19/01	2001-IR-100560	Drill Site 07	Seawater	5,000	Drill site operator discovered a small, high-pressure leak inside a well house on Well number 8, during his routine inspection.	Used heavy equipment to clean pad and some of pit. Remainder of reserve pit was cleaned by shoveling contaminated snow into snowmobile trailers. Cellar area was trimmed out using Roto-trimmer and contaminated gravel taken to Pad 3 West Pit.	Contaminated snow taken to Pad 3 East Pit and Gravel to Pad 3 West Pit.	This information is being provided to ADEC per 18 AAC 75.300
7/4/04	2004-IR-964225	Main Construction Camp (MCC), MCC, Non Process Area	Sewage	5,000	CAST IRON DRAIN LINE UNDER KITCHEN IN UTILIDOR BROKE AND RELEASED GRAY WATER INTO UTILIDOR AND EVENTUALLY FLOWED TO A UTILIDOR DRAIN AND ONTO PAD	Vac trucks were used to recover the fluids in the utilidoor and on the gravel pad under the kitchen.	Recovered fluids were sent to Pad-3 for disposal	
6/10/99	1999-IR-98841	Drill Site 14	Produced Water	4,755	"DS 14-29 flowline severed near the elbow approximately 300 feet from the wellhouse due to external corrosion, releasing oil and gas on the drillsite pad and the tundra."	"The IMT was initiated. The ARCO spill response team began cleanup of the area. Over 200 cubic yards of gravel was removed from the pad. Absorbant pads were applied to ponds and free standing water on the west side of the DS 14 pad. Bird deterrant canno	Cantaminated gravel was taken to DS 4 for injection at the grind & inject facility.	"DS 14-29 flowline severed near the elbow approximately 300 feet from the wellhouse due to external corrosion, releasing oil and gas on the drillsite pad and the tundra."
6/3/05	2005-IR-1397133	Lisburne Production Center, LPC Module 4923, GPMA	Produced Water	4,600	A 3/4" drain line welded to a 3" spacer failed resulting in water deluging the Produced Water Injection Module 4923. No Injuries occurred and the water was contained within the Module. While the media was Produced Water, there was no free oil or sheen visible in the water that accumulated within the Module. The system in which the failure occurred was the power water line used to sand jet vessels at LPC. Sand jetting was being done the morning of the failure. The morning sand jetting session went without incident. After lunch sand jetting was resumed in order to remove a pad that was present in the Treater #2. The sand jet power water flow control valve (F090V) was opened and steady state was achieved without incident. The site Operator then left the immediate area to walk down the Treater. Shortly thereafter is when the failure presented itself. No one was in the immediate vicinity of the failure so it is unclear whether pipe movement was occurring at the time of the failure. The response to investigate and isolate was executed safely. An RCFA will be performed.	Drum vacuums and Squeegees were used to sweep water to module sump. Then the area was mopped down with simple green.	Recovered fluids were recycled back into the facilities system.	The original volume reported was based on the estimated size of the module with a 1 inch coverage. After checking the actual floor space and taking consideration of the skids, rooms, and other areas not affected by the release, a revised volume was made.
5/27/03	2003-IR-521842	Access Road, Access road between GC1 and GC2, 3rd caribou crossing from the west	Produced Water	4,500	On the access road between GC2 and CG1 that had been selected. SD. Note: unchecked the MIA field as it did not match the severity	SRT teams from the PBU mobilized to start delineation and material recovery. Contaminated snow and ice is being recovered using hand shovels and a rubber tracked Bobcat front end loader. This material has been being taken to the T-pad solid waste storage facility as well as CC2-A solid waste storage facility. Fluids recovered by vacuum truck are being offloaded at temperary holding tanks at Santa Fe Pad. Update as of 6/16/03- The initial clean up is complete and the line has been repaired and placed back in service. Clean up crews are cleaning of the VSM's and piping along with decontamination of the bobcat, boom, hand tools, etc.. All fluids and solids have been disposed of. The site still has boom placed around the perimeter and will continue to be monitored on a daily basis.	All fluids and solids were either taken to the Pad 3 or Grind and Inject Facility for disposal. The oily sorbents and clothing were bagged and taken to the North Slope Borough for incineration.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/29/02	2002-IR-232301	Flow Station 2, FS #2 containment under tank 1984	Produced Water	4,469	GFC#3 inlet block valve and inlet OSD block valves leaked by during plant shutdown resulting in overflowing the GFC into secondary containment. Spill Review on 5/31/02 at FS2. Multiple butterfly (block) valves leaked in order for this overflow to happen. Also outlet from GFC to tank 84 was blinded off. High level alarm in GFC went unnoticed due to multiple alarms (ie shutdown). Shutdown was designed to be partial only but due to leaking valve in gas section, a complete facility shutdown was needed to perform required work. Also see action item 163496 which came out of spill review.	Flooded area with hot water and used horizontal rope mop to recover material. Upon completion of skimming operations, fluids were removed with Vac truck.	Material beneficially reused and/or taken to Pad 3 for disposal.	Initial notifications made on 5/29/02. This spill comingled with a previous spill that occured on 12/15/01, as such, this report serves as the final report for both spills. Final report submitted with ADEC approval and condition that all future dewatering must go to class one injection well.
10/16/93	1993-IR-88916	Niakuk Pad	Drilling Mud	4,410	Injection personnel mixed 105 bbls. of 3% KCL water in rig tanks to be transfered to an outside storage tank. The employee failed to check the level of the outside tank before transfering. When he pumped the fluid to the tank it ran over spilling the entire 105 bbls. onto the gravel pad.	A vac truck was used to pick up the contaminated fluid. A 966 loader was used to pick up contaminated gravel.	The fluids were pumped back into the the mud room to be reused for its original purpose. The contaminated gravel was taken to T-pad lined pit area	The pit watcher in the mud room mixed a batch of drilling water to be put into the holding tank. He then transferred the fluid into a full tank causing it to overflow onto the pad. Before transferring fluid, he neglected to check the level on the
11/21/80	1980-IR-96034	Drill Site 16, Not specified	Diesel	4,284	Broken fuel line	Not specified	Not specified	Not specified
1/1/05	2005-IR-1192149	GC-2, Outside of Skid 408, GC2/SAT	MEG	4,200	During a Production upset caused by a failure of a drop controler in the PWX section of the GC, the level of the Glycol in T-7705 expansion tank overflowed into the secondary containment outside.	A vac truck was used to remove liquids and flush gravel that could not be reached with heavy equipment. A bobcat, loader, dump truck and hand tools were used to remove contaminated snow and gravel.	Liquids and flush water were taken to Pad-3 for disposal. Contaminated snow and small amounts of trace gravel were taken to T-Pad storage pit.	NRC # 745928
9/25/89	1989-IR-96772	Seawater Injection Plant, Not specified	Seawater	4,200	Corrosion leak underside of seawater distribution line.	Not specified	Not specified	Not specified
10/16/86	1986-IR-96162	COTU Facility, Not specified	Diesel	4,200	Break in fuel line	Not specified	Not specified	Not specified
11/14/03	2003-IR-679002	PBOC, PBOC Kitchen Lift Station	Sewage	4,000	The kitchen lift station tank has a leak in it and is encapsulated in an outer tank. Fluids leak from the primary into the secondary tank. If fluids in the inner tank are pumped out faster than the fluids in the outer tank, it causes the inner tank to float. This floating caused a line seperation. Due to the line seperation, when the sump pump kicked on, the fluids from the tank were pumped directly into the utilidor. The utilidor is constructed of plywood. From here the fluids leaked directly out onto the pad beneath the building. The fluids in the tank were from the kitchen sinks, dishwashing machine and potwashing machines. The tank has been blocked into place to keep from floating again. Plans for the replacement of this system have already been established.	The area will be flushed with warm water and recovered with a vac truck for disposal.	Recovered fluids will be taken to pad-3 for disposal.	Approximately 100 gallons of the spill that covered the tundra was not recovered because trying to recover the ice by thawing or manual recovery would only cause more damage to the tundra.
4/5/03	2003-IR-477892	Main Construction Camp (MCC), Main Construction Camp	Sewage	4,000	Grey water spilled on to MCC gravel pad when a cam lock coupling failed. The cam lock was part of a temporary installatoin being employed while a replacement lift station pump was being obtained. The lift station high level alarm also failed, allowing the lift station tank to overflow without any notification	Area was flushed with warm water and the fluids were recovered with a vac truck. After the area was flushed completely, it was then covered with lime.	Recovered flushing fluids was taken to pad-3 for disposal.	Immediate notifications were made to the appropriate agencies.
4/12/95	1995-IR-98482	Pad 10	Methanol	3,780	*Vac truck was overfilled while loading methanol from tank at Pad 10. Driver was not familiar with the meter and miscalculated the volume being transferred. All material was contained in lined secondary containment.	Metis/Cleanup		*Vac truck was overfilled while loading methanol from tank at Pad 10. Driver was not familiar with the meter and miscalculated the volume being transferred. All material was contained in lined secondary containment.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/28/03	2003-IR-448109	MCC Fuel Dock, MCC Fuel dock	Diesel	3,576	One of the filters on diesel pump # 2 ruptured and caused a diesel spill. Approximately 3,556 gallons spilled into the metal containment sump under the fuel pumps and 20 gallons spilled onto the gravel pad directly next to the pump area. In addition, there appears to be communication between the metal containment sump and the underlying "tertiary" containment which consists of gravel overlying an impermeable liner. Pipe sumps extend down through the "tertiary" containment to the impermeable liner. It is unknown how much material may have leaked from the metal containment into the "tertiary" containment. This site is already under oversite of ADEC Contaminated Site group for previously identified contamination.	Initial cleanup utilized a vac truck to recover diesel from the metal containment (utilidor) below pump houses. Intermediate cleanup was accomplished using heaters (hot air) and hot water to melt snow and ice in the metal utilidor and then recover with a vac truck. Fluids were sent to Flow 1 for recycle. Final disposition of spill will be dependent on sampling results gathered this summer as agreeded to by ADEC.	Fluids will be recycled, any solids will be remediated at a later date.	Initially reported on 2/28/02. Sampling and final cleanup, if needed, will be conducted this summer. Samples were taken in June and the results were sent to ADEC.
7/15/97	1997-IR-98694	Drill Site 04	Seawater	3,360	A blind on the pig receiver developed a leak spilling seawater into the module. 42 Gallons leaked out the sub-floor to the pad.	Used vac trucks to clean up seawater. - Seawater was reused by Well Services on 7/15/97		A blind on the pig receiver developed a leak spilling seawater into the module. 42 Gallons leaked out the sub-floor to the pad.
5/28/02	2002-IR-231659	Seawater Injection Plant, SIP pad	Seawater	3,150	A Peak Vac truck was overfilled with seawater, a spill of about 75 bbls to the pad resulted.	Free liquids recovered by vac truck.Contaminated gravel washed and tested. Upon completion of testing and acceptance of sample results by ADEC the gravel was returned to original excavation.	Recovered liquids and wash water disposed of at Pad 3.	Initial report submitted on 5/29/02. ADEC (Walt Sandel) reviewed sample results and agreed that cleanup had been completed to satisfactory levels.
11/10/89	1989-IR-96818	Drill Site 15, Not specified	Seawater	3,150	Valve tank was left open after transfer.	Not specified	Not specified	Not specified
4/17/05	2005-IR-1333690	Drill Site 14, Well 14-20, FS3	Fresh Water	2,940	Water was found flowing up the outside of the conductor pipe on well 14-20 during workover operation. Water was initially thought to be freshwater from thaw bulb in pad / tundra that was melting while hot fluids were pumped downhole. Fluids were sampled and indicated a slight amount of contaminated, indicating that material was likely freshwater lightly contaminated by coming in contact with well cellar and wellbore fluids. Determination was made by ADEC that contamination was significantly above surface water threshold for contaminants and therefore considered an agency-reportable release. Around May 4, 2005 after the well was brought back on line, fluids again began flowing from subsurface around the conductor and flooding the area. Further sample analyses revealed a profile similar to the initial release: salinity ranged from 4500-5500 ppm; BTEX results indicated slight contamination of ethylbenzene of .038 mg/L and xylenes of 0.148 mg/L.	Loader, and dump box were used to remove contaminated ice and gravel. Standing fluids were recovered using a vac truck.	Contaminated gravel was transported to Grind and Inject facility for disposal. Recovered fluids were taken to Pad-3.	This release is shown as multiple releases of fresh water due to the same cause and is therefore to be considered as one release in the database. Volumes listed are estimates of the released material based on size of glaciated area. Note that material released is lightly-contaminated freshwater and not produced water as listed above.
2/20/76	1976-IR-95991	COTU Facility, Not specified	Crude Oil	2,940	Holding tank overflowed.	Not specified	Not specified	Not specified
3/17/93	1993-IR-87796	Well Pad A	Seawater	2,700	A-16 Seawater Injection Flowline, upstream of the lateral valve. Snow was being removed for line replacement scheduled 3/18/93. The snow was piled very high - 6-8'. Whoever cleared snow from the area pushed it on top of the flowlines. The loader designated to remove this snow went in for a load. The snow was hard and crusty and it took out a gauge and gauge valve. The loader bucket did not contact the piping. The gauge valve came out of the threads. Seawater went approximately 50 feet in the air. The loader operator called the Pad Operator and the commissioning operator called DCS. It took the pad operator approximately 4 minutes to get to the Pad. The flowline was shut in immediately. The Operations Supervisor went to check on the line, A-16, and asked the loader operator if he was ok or if anyone was hurt, he said "no". It did not look like the flowline was hit. A gauge should not have been in that part of the line. Per Environmental, 2,700 gallons spilled.	Material on pad scraped up with a grader. Material off pad brought back onto pad with a Challenger Cat. All recovered material loaded into dump trucks for removal from the site.	All material taken to T Pad pit.	Gauge buried in hard-packed snow was sheared off sea water flowline during snow removal, allowing sea water to spray out onto pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/15/01	2001-IR-145805	Flow Station 2, Containment berm outside module 4942 at Flow Station 2's main pad	Crude Oil	2,600	At approximately 11:10 the board operator notified the facility operators that a High-High level alarm on the 1984 tank had annunciated at the board. The operator and lead operator responded to the alarm and found that the tank inlet valve had closed in response to the alarm. 2 separate level indication devices indicated normal operating level of +/- 17 feet. This lead the operator to check the operation of the High High level alarm switch. The switch was found to be malfunctioning so the operator notified the instrument technicians of the problem. The operator verified that the inlet valve was closed, isolating the tank from the source and allowed the outlet pump to pump the level down in the tank. With the level down and the tank inlet closed, the operator went to lunch. Since the tank supply was shut off, the operator stopped the outlet pump to prevent it’s running in full recycle until the High High level switch was repaired. At the end of the lunch break a security guard on patrol, called the board operator and notified her of liquids entering the secondary containment berm outside the facility. She immediately notified the operators who responded and restarted the outlet pump. The overflow stopped within a few seconds of the starting of the water outlet pump. The spill response team was called to the secondary containment area. Clean up operations commenced immediately. Upon inspection, the operations staff found that produced water had flowed in the direction opposite of normal process flow, through 2 check valves which did not close properly, and into the 1984 tank via it's outlet piping.	The perimeter of the spill, inside the containment area, was established and bermed with ice berm. Hot water in conjunction with Vac truck/Super Sucker were used to recover gross contamination. Operations have been suspended till Spring due to extreme cold and concern for secondary liner integrity.	Oil and produced water recovered will be recycled where possible. Other liquids and contaminated gravel will be disposed at Pad 3/G&I.	Recovery of gross product complete. Clean up operations suspended until Spring due to extreme cold and concerns for liner integrity will re-assess in the spring in conjunction with ADEC. Approved by ADEC (Walt Sandel)
8/16/02	2002-IR-290875	Well Pad A, A-22	Methanol/ Water	2,520	On August 16, 2002 at approximately 02:10 hrs, the A-Pad Field Operator was severely injured during an explosion and subsequent fire from Well A-22. Five hours after putting the well back on production, the 13-3/8” surface casing failed 17 feet below grade. Gas and fluid flowed up the 20” conductor by surface casing annulus, blowing gravel and boards up into the wellhouse. The needle valve assembly was knocked off the inner annulus (IA) companion valve, releasing 2,000 psi artificial lift gas into the wellhouse. An ignition source, possibly a spark from lights or other electrical equipment damaged by the blast, ignited the gas. The subsequent fire was sustained by high pressure gas from the 3-½ “ tubing by 9-5/8” casing annulus.	Fluids have been removed with vac truck. Gravel in well cellar was removed with hand tools and super sucker. Gravel on pad area has been removed with heavy equipment and hand tools.Gravel in area where vehicle battery was located has been placed in a drum and taken to Haz-Waste Building for testing.	Liquids removed with vac truck were taken to Pad-3. Gravel in well cellar has been taken to Grind & Inject Facility. Gravel on pad was taken to T-Pad disposal pit. Gravel from vehicle battery will be tested to determine proper disposal methods.	A vehilce was also burned in the incident, trace amounts of hydrocarbons, gylcols and acids are believed to be on the pad area. All of this material will be removed once area is safe to enter and well work is completed. Clean up and disposal plan was approved by ADEC on 9/7/02.
4/30/82	1982-IR-96071	Surfcoat Pad, Not specified	Diesel	2,520	Frozen seam split	Not specified	Not specified	Not specified
9/20/87	1987-IR-96241	Drill Site 11, Not specified	Produced Water	2,520	Bull plug broke	Not specified	Not specified	Not specified
1/27/06	2006-IR-1702739	Drill Site 13, DS-13 well 31, FS3	Methanol	2,514	Operations was in the progress of pressuring 13-31 flow line after well work over and piping modification to test for communication and confirm there were no ice plugs when operator at the well house noticed leak from elbow upstream of the well house. The flowline likely contained a mixture of fluids from wells 13-31, 13-32 and 13-35. A methanol / water mixture was pumped into the flowline last fall to freeze protect and troubleshoot potential ice obstructions in the line. Dead crude was pumped into the flowline in November to provide an appropriate heat sink for sleeve work on the flowline. The operators were using Artificial Lift gas to pressure the line and check for communication. When the line reached approximately 340 PSIG the operator that was at the well to check for leaks heard a leak from outside the well house. Upon investigation outside he saw freeze protect fluids blowing from the failed 90 degree elbow and notified the operator in the manifold building to shut in the AL gas. The line depressured immediately allowing primarily dead crude and methanol mixture fluids to be released to the surrounding area. Snow-covered gravel pad / road, reserve pit and tundra were affected. All valves on the header were closed and operations started blinding the flow line. SRT was contacted immediately.	Snowmachines and heavy equipment are being used to removed crude-contaminated materials from tundra. Trimmers, flushing & supersucker used for removing methanol from reserve pit. Absorbents, rag's and chem clear were used to remove contaminated material from piping.	All snow, and gravel were taken to DS 4 Grind and inject facility for disposal.	110 outside containment = dead crude; 2514 in containment = methanol NOTE: This is the Final report!
4/29/02	2002-IR-212142	BOC, BOC	Sewage	2,500	Commercial clothes dryer tripped breaker, faulting back to the main electrical feed to the panel that supplied power to the sewage pump causing pump shutdown and overflow of the holding tank under the swimming pool area.	All of the free standing liquids have been recovered using the waste water truck. The material under the pad has been removed with jackhammers and heavy equipment. The area was then disenfected with a water and bleach solution.	Liquids were taken to the sewage treatment plant. The ice and gravel has been taken to Pad-3 disposal.	Security silenced alarmed and did not notify camp maintenance because it was after hours and deemed low priority. Procedures have been changed to always notify camp maintenance regardless of situation.
12/13/86	1986-IR-96172	Pad 3, Not specified	MEG	2,310	Unknown open valve	Not specified	Not specified	Not specified
6/29/75	1975-IR-95984	West Dock, Not specified	Diesel	2,200	Cam-lock couplng failed.	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/11/04	2004-IR-1056670	Well Pad W, GC2/SAT	Seawater	2,100	Alleged spill of 40 to 50 barrels of saltwater brine in pump room of Doyon drill rig. Some may have spilled outside and not on the hurculite. Alleged spill not reported to 659-5700 immediately.			Alleged spill is being investigated. Geoff Kany and Janet Platt verbally reported the limited information provided to BPXA on this alleged spill to Tom DeRuyter of ADEC at 1:55PM September 9, 2004.
5/26/07	2007-IR-2275834	Well Pad W, W-Pad wells, GC2/SAT	Drilling Mud	2,100	During a surface cement job, the mud was thinned back from 300 to 60-70. This caused the mud to be able to leach through the pea gravel and sand below the conductor pipe and come out of the ground in and around the 3 adjacent cellar boxes.	The contaminated snow and gravel has been removed with the use of a super-sucker, skid steer loader and hand tools. The cleanup will be complete once the ground thaws out.	The drilling mud was taken to the grind and inject facility. Some of the contaminated snow went to T-pad waste storage pit.	
5/20/03	2003-IR-515806	G&I Facility	Drilling Mud	2,100	Grind & Inject plant was processing material when the material being processed in the mill became dry and "sticky" causing the material to be deposited within the system in an unacceptable form. This dry sandy mass plugged off the shaker pumps which resulted in material clogging the system and ultimately forcing fluids out of the top of the sump box and onto the floor area of the plant below. Aproximately 150 gallons of slurry fluids were lost from the system to include less than two gallons that escaped the building via the opening for the reject conveyor ending up in the secondary containment under the building. Grind & Inject has permission of take fluids from this area and use them in the processing of material to be injected, therefore these fluids were removed from the secondary containment and deposited within the system for injection. The other fluids and material, recovered from the floor of the builfding were also deposited in the system for injection. The plant resumed normal operations at 0645 on 5/21/2003.	Emloyees used wet vacuums, a supersucker and sorbant materials to clean up the spill.	All material was placed back into the system and injected as it was being processed for injection.	
2/20/01	2001-IR-100561	Well Pad D	Methanol	2,100	D-pad 6" flowline number 86 ruptured during a thawing / displacement operation which involved pumping dead crude into the flowline. MEOH had previously been pumped into the line at several locations. The line rupture occured between D-pad and GC-1. Fluids in the flowline at the time of breech flowed under the snow , at the edge of the access road. The contaminated area is still being deliniated , though it is obvious there has been migration. The actual volume spilled is still being determined , based on the amount pumped and flowline capacity it is anticipated to be in the 100 - 200 bbl range.	Heavy equipment and labor crews currently working.	Fluids are being sent to the Pad 3 Class I injection well for disposal. All snow and ice	Additional updates will be sent out. ADEC representatives have been insight monitoring clean up operations.
1/26/92	1992-IR-97789	Drill Site 09	Produced Water	2,100	Discharged into reserve pit from leaking flange on an injection line.	YES -		Discharged into reserve pit from leaking flange on an injection line.
11/25/89	1989-IR-96856	U-21 (EOA Building), Not specified	Diesel	2,100	Valve vibrated open and camlock came loose.	Not specified	Not specified	Not specified
12/16/00	2000-IR-95740	Well Pad, Roads	Sewage	2,000	At approximately 1700 hours a staff member reported there was a wastewater/sewage spill under the Corrosion building on South Hangar pad. An immediate inspection of the area was conducted, and confirmed the situation. The situation was then called in to the Spill hotline, and the Spill Technician came out for a site survey and to start cleanup planning. A Building Maintenance technician was also called out to diagnose the nature of the failure. It appears that the holding tank pump may have been shut off, and that the overflow alarm may have been disabled, which allowed an overflow, but further work is required to positively confirm that. 12/17/00 Update: It was confirmed that the spill was caused by the pump being switched off, the duration of time it was switched off is not known. The water sources in the building have been posted off limits, and will remain so until the mechanical situation is resolved.	Vac-truck removed free-standing liquid. Jackhammers/shovels and other hand tools used to cleanup frozen material.	Ice and contaminated snow will be disposed at Pad 3	Spill 100% cleaned up at this time.
4/5/86	1986-IR-96182	COTU Facility, Not specified	Diesel	2,000	Seam leak in tank	Not specified	Not specified	Not specified
1/4/80	1980-IR-96020	Drill Site 03, Not specified	Diesel	1,890	Hose broke	Not specified	Not specified	Not specified
3/18/94	1994-IR-98464	Drill Site 03	Produced Water	1,806	"A bleed port on a 6""""" tank ball valve began leaking and discharged material into one of the closed-out reserve pit sumps."	"The material that had frozen on top of gravel was chipped and scraped up at time of spill.		"A bleed port on a 6""""" tank ball valve began leaking and discharged material
8/23/89	1989-IR-96757	Central Gas Facility, Not specified	MEG	1,800	Leak in surge drum	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/30/01	2001-IR-129659	Access Road, Access Road to P pad	Hydrochloric Acid (HCL)	1,764	An acid transport was on its way to P pad. The truck was last in a convoy of 3 and they had past U pad and were approaching their last turn to get onto P pad access road. The truck driver was driving at approximately 20 mph before starting the turn and he reduced his speed further more to negotiate the turn safely. He missed a gear while downshifting and as he was coasting through the turn he perceived that he was accelerating and decided to apply the brake to reduce his speed. This led to the loss of traction of the front steering wheels on the icy road. He reacted by counter steering and pumping the brake but was unable to regain traction. When he realized that the truck would end up off the road, the driver steered in the direction of the slide in an attempt to drive the truck off the road safely without rolling it over but it was too late. The tractor slowly leaned and the driver braced for the roll. After the truck had settled on its side, the driver turned off the engine and quickly exited out of the cab through the broken windshield. He then inspected the transport to check if any of the two compartments were leaking and witnessed a leak on the front compartment. Acid was leaking just below the hatch lid. Two Veco hands were also following the truck when the accident happened. They stopped to see if the driver was hurt and after making sure the driver was ok they drove to P pad to alert Security and Schlumberger supervisor. Security asked for the scene to be evacuated and barricaded off in case of acid fumes. An atmospheric monitoring was conducted later on and no acid fumes registered. The spill area was barricaded and the access to site secured by security. No one was injured due to this incident.	Free standing liquid removal is complete. Top layer of snow and ice has been removed from contaminated areas and taken for melting and disposal. Crews are continuing the flushing operations using warm water and vac trucks.	The snow will be placed in a snow melter then disposed of at Pad 3 once neutralized.	
5/25/03	2003-IR-518960	GC-2, 6" Dead Leg Produced water header in Skid 301at GC2.	Produced Water	1,680	A 6" dead leg off the produced water header in Skid 301 corroded through. Produced water leaked into skid. Operations responded and isolated leak.	All of the free standing liquid inside skid 301 was removed with vac trucks and hand tools. The floor was then mopped and hand wiped with rags and absorbent material.	All of the liquids were injected in the Class 2 well at GC-2. All of the absorbent material will taken to an approved NSB oily waste dumpster.	Initial voulume reported as 2000 gallons. Approximately 1680 was recovered with vac trucks.
3/23/94	1994-IR-88451	Well Pad H	Drilling Mud	1,680	Crew was in the process of running surface casing and was filling casing with the casing fill-up line. The casing fill-up line had broken inside a walkway suitcase, leaking water-based drilling mud onto the pad. Line appears to have froze and broke during recent rig move.		All contaminated materials were taken to the Ball Mill for disposal.	A 3" line from the rig floor and substructure to the mud pit had been frozen previously, thawed, and blown down. No leaks were detected at that time. However, evidently a split had occurred while the line was frozen. When the line was placed back into
12/15/85	1985-IR-95943	Drill Site 15, Not specified	Crude Oil	1,680	Ruptured pipe	Not specified	Not specified	Not specified
9/26/83	1983-IR-96131	Flow Station 1, Not specified	MEG	1,680	Unknown	Not specified	Not specified	Not specified
1/6/00	2000-IR-98850	Drill Site 09	Seawater	1,663	Tank was overfilled by a vac truck. spilling seawater/friction reducing agent.	The SRT was called out to the spill. They used a grader and loader with a scratcher to scrape off the surface of the pad. The material was loaded into a maxi haul and taken to the pad 3 east snow pit for disposal.		Tank was overfilled by a vac truck. spilling seawater/friction reducing agent.
1/18/93	1993-IR-97991	Drill Site 16	Seawater	1,620	Material leaked from grease fitting on lat. valve of seawater injection line.Spill cleanup incomplete.	Metis/Cleanup		Material leaked from grease fitting on lat. valve of seawater injection line.Spill cleanup incomplete.
9/21/99	1999-IR-94259	GC-1 Pad	MEG	1,600	Fire technicians were in the process of flowing the outside hydrant on module 525 at GC-1. While flowing water at the hydrant, the technicians noticed water dripping out of the module above them. The technicians shut in the hydrant and went to investigate. Their investigation revealed a fire hose drop in the module had failed at the pipe threads and a full stream of water was flowing out of the pipe into the module. One technician notified the area operator as the other went to shut off the fire water pumps. Upon further investigation, it appears the fire hose gated-wye was cross threaded and stripped at the threads and finally failed when the fire water pumps came on. The large volume of water that was released in the module flowed down the module deluge drains, as designed, and into the plant deluge drain header. The deluge drain header flows to the open pit at the north east corner of the GC-1 pad. A 60/40 water-glycol mix is used to freeze protect the p-traps on the deluge drain system. A quantitiy of this glycol was washed out of the header and into the unlined deluge pit, causing the spill.		Material was taken to Arco Pad 3	Lab samples were taken and results were .56 MEG so amount was determined by volume taken for disposal

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/17/84	1984-IR-95920	COTU Facility, Not specified	Crude Oil	1,600	Ice plug in line	Not specified	Not specified	Not specified
6/10/99	1999-IR-98841	Drill Site 14	Crude Oil	1,586	"DS 14-29 flowline severed near the elbow approximately 300 feet from the wellhouse due to external corrosion, releasing oil and gas on the drillsite pad and the tundra."	"The IMT was initiated. The ARCO spill response team began cleanup of the area. Over 200 cubic yards of gravel was removed from the pad. Absorbant pads were applied to ponds and free standing water on the west side of the DS 14 pad. Bird deterrant canno	Cantaminated gravel was taken to DS 4 for injection at the grind & inject facility.	"DS 14-29 flowline severed near the elbow approximately 300 feet from the wellhouse due to external corrosion, releasing oil and gas on the drillsite pad and the tundra."
12/24/00	2000-IR-95776	Bulk Fuel Facility	Diesel	1,512	At 1225 hours employee arrived at WOA bulk fuel tanks loading dock. Truck was prepared for onloading diesel into 3 separate 70 barrel tanks that can be loaded simultaneously or individually. The loading task was started and the operator went to the dog house and observed the site glasses on the 3 separate tanks. Tank #1 was not filling. Tanks 2 and 3 were filling without a noticed problem. The operator left the dog house on the tanker/unit and checked the hose connections which were ok. The operator had planned to stop loading when the meter read 5250 gallons in transfer due to tank #1 not filling properly. The operator stood by at the meter in Fueling shack for a few minutes. The operator left the Fueling shack and performed a visual check of the transfer connection and walked around the tanker/unit with no indications of problems without checking the site glasses inside the dog house. Operator returned to the Fueling shack waiting to stop the loading process when meter read 5250 gallons. The operator decided to check the site glasses inside the dog house, walked outside fuel shack and noticed diesel on the ground behind the tanker/unit. The loading operation was immediately terminated by the operator by pressing the STOP button in the Fueling shack. The operator closed the loading valve at the fuel dock, closed valves on the tanker/unit, shutdown the tractor and generator motor and called for immediate assistance. SRT was notified and clean-up initiated. The transfer rate of the onloading pump for the first minute of operation is 100 gallons per minute. The pump, if uninterrupted will begin to transfer at 280 gallons per minute. (These transfer rates will be comfirmed 12/25/00). Transfer rates were confirmed on 12/25/00.	Loader, bobcat, sorbents and hand tools are being used to clean affected snow.	Sorbent material was put in NSB oily waste dumpster, some snow will go to Pad 3 and some material will be recycled for freeze protect fluids.	A spill review is scheduled for 12/25/00 8:00AM
10/10/06	2006-IR-2012820	GC-2, Skid 484 MEG surge tank., GC2/SAT	MEG	1,500	While the plant was shutdown during the power failure and while attempting to run our generators, a source of pressure migrated in to the system and pushed the MEG back to the vent. It rapidly filled the surge tank and the operator was not notified of the high level. Added 10/28/2006 SKC The event occurred during a full field power outage. GC-2 cooling water pumps shutdown and would not restarted during this event. Below are the details from the investigation into this spill. The spill was due to Cooling Water Surge Tank, T-7705, overfilling and running out vent to pad. The spill was stopped after isolation valve to skid 407/408 cooling water branch was closed in skid 410. This was not an easily accessed valve and required an extension ladder to reach. Operators indicated this has never happened before. The cooling water circuit was originally designed to be closed looped, meaning initial coolant volume should be total volume and the addition of glycol during operation would not be required. Over the years, coolers have been added as well as the additional modules which have increased the total system volume. The coolant system has also been tapped into to supply glycol to the Sulzer Buffer Fluid. When this glycol is removed, it is re-filled from the heating glycol loop. This allows total volume of system to change from initial startup volumes which could have played a role in the spill in Scenario	A vac truck was used to remove product from containment area and free liquids on the pad. A loader and hand tools were used to remove contaminated gravel from the pad.	The contaminated gravel was taken to pad 3. The liquids were reused for freeze protection operations.	Prudhoe Bay was in a total power outage at the time of this incident with all the well pads shut down. The verbal notification was called in by Larry Raburn, acting WOA environmental advisor on 10/10/06 at approximately 1650 hours. N 70.18.611 W 148.51.756
6/2/01	2001-IR-101509	Main Construction Camp (MCC)	Sewage	1,500	The initial alarm was received at 4:00 AM but was misinterpreted by MCC security and a call out was not made. The on duty officer believed the alarm was simply a low temperature alarm and did not involve an urgent condition and that a callout was not warranted. Investigation indicates immediate notification likely would not have prevented the spill but may have reduced the volume. At 530AM the maintenance foreman was advised a high level alarm and low temperature alarm was occurring in the MCC double status lift station. He paged the plumber in the MCC who responded immediately and found the spill in progress. Approximately 1500 gallons of black water had been released and spilled onto the pad. The spill was isolated and a vac truck called to initiate cleanup. Cleanup was completed by approximately 8:30AM. Investigation revealed that a check valve retaining ring on the gate had failed allowing the gate arm to back out of the housing. The fluid was released through the resulting hole in the housing. The pin was not located and could not be examined for cause of failure. The valve was 15 years old. There has been no PM relative to the internal integrity of these types of valves.	Recovered product with Vac truck and spread lime to kill bacteria	Product re-introduced to sewage treatment system.	This information is being provided to ADEC per 18 AAC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/9/02	2002-IR-220191	Main Construction Camp (MCC), MCC sewage lift station	Sewage	1,500	At approximately 0745, a low temperature alarm sounded for the double status lift station at MCC. Electrician went to lift station to inspect and discovered fluids running out the door onto the ground. Employee contacted supervisor, who assessed situation, called a vac truck and plumber for assistance then contacted 5700 to report spill. Supervisor filled out spill report with security and returned to event where the vac truck had already sucked out the lift station building that had contained approximately 1000 gallons of sewage and had begun vacuuming up fluids that had spilled to the ground outside the lift station structure. Main breaker was turned back on and pumps started immediately. Upon investigation, the reason for the event was due to snow buildup that slid off the medical x-ray fluid building adjacent to the lift station. When the snow slid off the roof of this adjacent building it bent the conduit leading to a light fixture above the level of the roof, causing the wire to the lightfixture to short out and trip the breaker in the x-ray fluid building and ultimately the main breaker panel in the lift station. The main breaker panel feeds the pump control and the high level alarms. This loss of power resulted in no power to the pumps or the high level alarm. Sewage was then allowed to flood the inside of the lift station to the point that it exceeded the primary containment area and began to leak through the seal of the freezeer door to the outside.	Recovered material with Vacuum Truck. Material was reintroduced into the system for processing. Area will be treated with lime.	Wastewater Plant	Immediate notifications made to the appropriate agencies.
5/27/03	2003-IR-521842	Access Road, Access road between GC1 and GC2, 3rd caribou crossing from the west	Crude Oil	1,500	On the access road between GC2 and CG1 Note: unchecked the MIA field as it did not match the severity that had been selected. SD.	SRT teams from the PBU mobilized to start delineation and material recovery. Contaminated snow and ice is being recovered using hand shovels and a rubber tracked Bobcat front end loader. This material has been being taken to the T-pad solid waste storage facility as well as CC2-A solid waste storage facility. Fluids recovered by vacuum truck are being offloaded at temperary holding tanks at Santa Fe Pad. Update as of 6/16/03- The initial clean up is complete and the line has been repaired and placed back in service. Clean up crews are cleaning of the VSM's and piping along with decontamination of the bobcat, boom, hand tools, etc.. All fluids and solids have been disposed of. The site still has boom placed around the perimeter and will continue to be monitored on a daily basis.	All fluids and solids were either taken to the Pad 3 or Grind and Inject Facility for disposal. The oily sorbents and clothing were bagged and taken to the North Slope Borough for incineration.	
8/21/00	2000-IR-95305	GC-2 PWH Section	MEG	1,470	The skid 408 MEG (glycol) expansion tank overfilled during a Produced Water handling system unplanned shut down and overflowed into secondary containment. Source control was established following the T-7703 skim tank overflow. Reference LCIR #15456 for more details and respective action items.	Glycol was sucked up with a Vac truck. Gravel sucked up with a super sucker.	Material taken to Pad-3 Facility.	Initial report called in by phone.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/12/05	2005-IR-1324765	Drill Site 14, DS14 Manifold building - east side of pipe rack and tundra adjacent to pad., FS3	Crude Oil	1,260	Responding to an automation system gas alarm in the DS14 manifold building, the operator observed a large amount of liquid-free gas escaping from an above ground production pipeline. The drillsite area and adjacent roadway was secured and personnel operating a workover rig upwind of the gas release were notified of the emergency situation. The operator asked for the Emergency response teams and the Incident Management Team to be activated and both were in place within a ½-hour. Production wells were shut in as soon as the site was evaluated for hazards and the production facility began de-pressuring the affected line to the flare system. As the line was being de-pressured, oil and produced water from the line began exiting the leak area and misted the production facilities and approximately 50 acres of surface area with oil and produced water spray. The oil and produced water escaped the leak area for approximately three (3) minutes and then only gas vapor continued until the line was near zero pressure approximately 1-1/2 hours after initial gas alarm. The produced fluid volumes released were estimated to be less than 30 barrels of oil and produced water and approximately 1.4 million scf of gas. Alaska Department of Environmental Conservation (ADEC) representative was on scene after the area was safe to enter and participated in the Incident Command. The ADEC event status updates are posted as public information on the agency¿s website. Newspaper and TV media outlets reported the event the same day. Production from this drillsite was interrupted for approximately 42 hours. The production is now back on line and clean up operations are in place. Early analysis of the leak site shows to be a cracked weld in a 6-inch gas line connected to a 12-inch, 7200-ft long production line that carries water, oil and gas from DS14 to the separation facility at Flow Station 3.	Contaminated snow on tundra was removed by hand tools and mechanical equipment and signed off by ADEC. All contaminated snow on pad was recovered using hand tools and mechanical equipment. Crews cleaned the module using aerial equipment and wiping it down with solvent and rags.	Contaminated snow / ice / water was disposed at the Grind & Inject facility. Contaminated sorbents, PPE, disposable equipment and similar solid waste was managed as solid oily waste.	Containments have been placed under the module and will be monitored throughout the summer. Estimated volume of natural gas release was 1,400 mscf.
10/15/07	2007-IR-2439993	Flow Station 2, DS 16 D Common Line first expansion joint, second elbow, from the FS2 pad., FS2/COTU	Methanol/ Water	1,260	Operations was trying to thaw a freeze plug close to the FS2 end of the DS16 D commonline. 45bls of Methanol was pumped into the commonline in an effort to thaw ice plug. This process raised the line pressure above 300lbs. The line was left at this pressure while a FLIR camera was used to try and pin point the cold section. At approx. 1315 hrs the pressure dropped quickly. Operations investigating the sudden drop discovered a spill event just off the edge of the FS2 Pad. Changed the Release To: to Tundra and the request of Mike McDaniel. Melba Wallis 11/8/07	Free liquid contaminates were vacuumed off the ice. The ice was melted and the area flushed with warm water. Fluids were recovered using vacuum truck.	Recovered fluids sent to Pad 3.	15 Samples taken as per ADEC. 2 samples show contamination above clean up levels. Clean up will resume as soon as pipe repair is complete. It should be noted that the methanol/water mixture spilled was 60% methanol / 40% water.
5/1/02	2002-IR-215110	L-1, L1 drillsite, module 4901	MEG	1,260	An auxillary heater core failed inside test separator module causing glycol to leak inside module. The leak caused a low low liquid level shutdown of glycol heating system. Leak went undetected due to lack of access for drillsite operator to make rounds. Weather was blizzard conditions, Phase two on road and phase 3 on pads.	Recovered material inside module with Vac truck and hand tools. SuperSucker and hand tools used to recover material on ground under module.	27 cubic yards of material taken to pad 3 for disposal.	Initial report submitted on 5/2/02.
4/1/07	2007-IR-2211552	Well Pad J, Well pad J well 1 cellar, GC2/SAT	Fresh Water	1,260	While the operator was performing daily HSE checks in well house J-1, he discovered an accumulation of water in the well cellar that had not been present during the previous days inspections.	The water inside of the well cellar was removed with a vac truck and monitored by the Downhole Diagnostic Technicians. The gravel inside the wellhouse was removed using a super sucker assisted by approximately 13 barrels of hot water from a water truck to thaw frozen gravel.	The gravel from the well cellar was taken to the Grind & Inject Facility and the recovered water was taken to Pad-3	
9/11/04	2004-IR-1048026	Seawater Injection Plant, SIP Mod 49-401, FS1/SIP/STP	Seawater	1,260	A drain valve on the Seawater supply line from STP launcher/receiver, to the SIP Inlet tank was inadvertently left open to a module sump during restart. The valve was not tagged open during the start up. Air is bled from SW lines by way of drain lines to the floor module sumps as STP starts refilling seawater headers. The valve was plugged with debris/scale and no flow was observed in the sump over a two hour fill period. The plug broke loose and overfilled the sump before being detected. The floor water leak detection system (alarms) worked as designed.	Material inside on module floor was cleaned up and returned to the sump for recycle. The contaminated gravel outside the module was recovered with a super sucker.	Contaminated gravel was taken to Pad-3 for storage until remediation.	
8/14/94	1994-IR-86173	Skid 50/51	Seawater	1,260	Electrical Inspector observed a leaking flange in the snow shelter next to skid 50/51 and reported it to the pad operator. The pad operator informed the Operations Supervisor. The seawater line was shut-in to depressure the leaking flange. The flange was pulled apart for inspection and found to have corrosion damage causing the leak. Prior to this incident, this snow shelter has been monitored on at least a monthly basis, and was last checked approximately 10 days ago.		The material that was put in the vac trucks was taken to GC 1 dirty water tank for re-use.	A 3" bleed valve on the 24" seawater line from flow 3 to GC 3 developed a leak ,due to corrosion, on the valve side of the flange, allowing seawater to leak into and out of the snowshelter.
12/24/90	1990-IR-96327	Drill Site 09	Diesel	1,260	Leaked from pipe caused by loose union.	YES -		Leaked from pipe caused by loose union.
12/28/85	1985-IR-95944	Drill Site Maintenance, Not specified	Crude Oil	1,260	Faulty truck parts	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/30/88	1988-IR-96587	Seawater Injection Plant, Not specified	Seawater	1,260	Overfilled tanker	Not specified	Not specified	Not specified
12/31/88	1988-IR-96592	Seawater Injection Plant, Not specified	Seawater	1,260	Valve left open	Not specified	Not specified	Not specified
10/9/84	1984-IR-96149	Drill Site 15, Not specified	Crude Oil	1,260	Valves failed	Not specified	Not specified	Not specified
6/19/89	1989-IR-96683	Chemical Tank Dock, Not specified	Diesel	1,232	Leaked from tank and then from lined dike.	Not specified	Not specified	Not specified
1/27/98	1998-IR-90404	GC-3 Oil Section	Crude Oil	1,200	PCC requested that C-3/C-82 be brought on line. The GC-3 Control Room opened the SDV perimeter valve in Skid 8 which established flow into Skid 4. The bulkhead valve in Skid 4, which should have been open, was closed in order to provide freeze protection for the line. The line overpressured and opened the pressure relief valve, which somehow caused, through vibration, catastrophic damage to the 3000# pressure gauge. One high and three low gas alarms initiated at 1000hr and the skid was isolated and depressured. Oil sprayed from the failure point in the flowline. The ERT was mobilized at 1010hr. The skid was fully depressured and the ERT demobed by 1300hrs.		N/A. Crude oil was contained and recovered for reintroduction into the process stream.	Spill ocurred in GC-3 Skid 4. No crude oil reached the environment. Pressure guage failed from C-3 well line being pressured against closed valve.
8/30/04	2004-IR-1032715	Drill Site 15, On the gravel pad in the are of the rig cuttings box and pits while on DS 15-11B, FS3	Drilling Mud	1,134	Operator was cleaning out the suction screens on a mud pump and forgot to shut a valve and replace a cap on the line when done. When the pump was started, fluid was discharged out the door of the pump room and out onto the pad. Revised estimate of volume is 20 bbls of mud	Final clean up was done with a Loader, and dump box.	Fluids and solids was taken to G & I for disposal.	NOTE: This is the Final Report.
9/16/72	1972-IR-95982	Well Pad, Roads, Not specified	Diesel	1,127	Truck tanker leak	Not specified	Not specified	Not specified
5/2/06	2006-IR-1817835	Flow Station 3, Flow Station 3 module 4947, FS3	Produced Water	1,122	PWI BOOSTER PUMP 15145 SEAL FAILED RELEASING PRODUCED WATER ONTO THE MODULE FLOOR. ALL WATER WAS CONTAINED INSIDE THE MODULE WITH NONE REACHING THE GROUND. WATER WAS CLEANED UP AND RECYCLED BACK THROUGH THE PROCESS.	Squeegees and drum vacs were used to recover the water and put it in the process sump for recycle.	The produced water was put in the facility sump where it will be recycled bac through the facility.	
7/13/02	2002-IR-264639	COTU Facility, COTU flare pit	TEG	1,100	possible psv failure flowing glycol to flare pit. while conducting esd/osd testing of facility psv must have lifted during a plant esd. at 1100 hrs. i noticed a low glycol tank alarm indication window on the cotp #1 control room alarm panel (the alarm had been silenced by either one of the fco technicians or the cotu temporary veco operator) whoever cleared the alarm did not pass the alarm on to me.	Recovered material with Vacuum truck and tranported to Pad 3 for disposal.	4925 barrels of fluids taken to pad 3 for injection. 10 cubic yards of material taken to T-pad for disposal.	Initial report submitted on 7/13/02
9/3/01	2001-IR-113853	PBOC, B-wing PBOC	Sewage	1,100	Electrician was doing the PM on the smoke detectors in the utilidor under PBOC Camp and discovered water dripping out of the utilidor. The PBOC plumber was dispatched to check where the water was comming from. He found the leak was on the waste water line from B-Wing. The leak was comming out of a joint where the pipe was glued to a flange. Befor repair work started all sump pumps were evacuated and shut in. When removing the flange the flow of water was not stopped and a large quanity was released onto the pad. The vac truck was standing by and minimized release and recovered a large majority of spilled material.	Recovered product with super sucker and transported to Pad 3 for disposal. Limed area after recovering all free standing liquids.	Pad 3	
6/30/96	1996-IR-91352	MOWF Storage Yard	Diesel	1,100	A diesel fired snow melter was placed in storage at Mukluk yard in September of 1993 by BPX(A) Drilling. The standard practice is to remove all fuel from tanks prior to placing in surplus. However, approximately 500 gallons of diesel fuel were estimated as remaining in the unit on 6/30/96. An unknown amount of fuel had leaked from the damaged fuel cell onto pad gravel. The hole in the fuel cell was/is of unknown origin. Environmental was notified of the spill and promptly responded. The amount of the spill will be determined after all contaminated gravel has been removed. The area where the spill was leaking was plugged. Drilling supervision was contacted and came to the site to assist with the investigation. Leak has been plugged and Environmental is in the process of removing contaminated gravel.		Approx. 600 yards of contaminated gravel has been hauled to AIC's Deadhorse facility for thermal remediation.	The fuel tank on snow melter SM &D #6606 was punctured at an undetermined time. This allowed approximately 1100 gallons of diesel to leak onto the pad. The spill was discovered during a routine pad inspection.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/17/05	2005-IR-1248059	Drill Site 11, DS-11 well 7 and 8 flowline about 150 feet from manifold bldg., FS2/COTU	Methanol/ Water	1,090	A freeze protected SWI flow line leaked an unknown volume of methanol water mixture into the tundra impoundment. The line had been depressured, freeze protected, and isolated with double block valves while waiting for a repair plan to be developed for a pressure leak on the line.	Removal of contaminated snow and ice performed by personnel with hand tools and heavy equipment. Flushing with fresh water performed for final site clean up.	Based on analytical data indicating these materials do not exhibit hazardous waste characteristics, contaminated snow / ice from release site will be collected in bins, melted and either used as make-up water for freeze protection or disposed at the Pad 3 waste disposal injection facility. Contaminated soil / gravel collected at the site may be re-used for subsidence fill or road maintenance once de-contaminated.	Estimate of material release to tundra / water surface was not feasible due to snow loading. Total estimate held in flowline = 86 bbls Total estimate vacuumed from flowline after release - 60 bbls Difference in volume unaccounted for as estimated maximum release = 26 bbls
4/17/96	1996-IR-90752	GC-2 Oil Section	Crude Oil	1,075	At approximately 1600 hrs., a leak was discovered by the Oil operator at GC2 on the N-46 flowline. Gas was seen coming out of the snow above the line. The line was shutdown and depressured and isolated. Environmental was notified and began clean up operations to determine the size of the spill. The entire area was covered with snow. Environmental was called and the spill was assigned for cleanup.		Class II fluids were put in GC2 Dirty Water Tank and recycled in the Production Facility. The gravel was then taken to Arco Pad 3 for remediation at a later date.	A leak developed in the 6 inch line from Skid 8 to Skid 4 approximately 20 feet from Skid 4. The leak was caused by freezing fluids which over stressed the line.
4/17/96	1996-IR-90752	GC-2 Oil Section	Produced Water	1,075	At approximately 1600 hrs., a leak was discovered by the Oil operator at GC2 on the N-46 flowline. Gas was seen coming out of the snow above the line. The line was shutdown and depressured and isolated. Environmental was notified and began clean up operations to determine the size of the spill. The entire area was covered with snow. Environmental was called and the spill was assigned for cleanup.		Class II fluids were put in GC2 Dirty Water Tank and recycled in the Production Facility. The gravel was then taken to Arco Pad 3 for remediation at a later date.	A leak developed in the 6 inch line from Skid 8 to Skid 4 approximately 20 feet from Skid 4. The leak was caused by freezing fluids which over stressed the line.
5/24/06	2006-IR-1846628	Drill Site 11, DS-11 BEHIND MANIFOLD BUILDING. WELL 26 MAIN SEAWATER INJECTION LINE., FS2/COTU	Seawater	1,050	Acuren personnel identified a seawater leak at the injection line and immediately contacted the Drill Site Operator. Operator shut in and isolated the wells and contacted the spill reporting hotline. SRT personnel were dispatched and set up appropriate temporary containments. Seawater from the line was released to the gravel pad and to the tundra impoundment.	A vac truck was used to recover standing fluids from the site. A supersucker and hand tools were used to collect contaminated gravel from pad area.	Recovered fluids will be disposed at the Pad 3 waste injection facility. Contaminated gravel will be stored at the Pad 3 West Pit location for future remediation.	Immediate agency and internal notifications were completed. Note: Square footage is an estimate due to the fact that the fluid's spilled in to a fresh water impoundment.
8/16/02	2002-IR-290875	Well Pad A, A-22	Seawater	1,050	On August 16, 2002 at approximately 02:10 hrs, the A-Pad Field Operator was severely injured during an explosion and subsequent fire from Well A-22. Five hours after putting the well back on production, the 13-3/8” surface casing failed 17 feet below grade. Gas and fluid flowed up the 20” conductor by surface casing annulus, blowing gravel and boards up into the wellhouse. The needle valve assembly was knocked off the inner annulus (IA) companion valve, releasing 2,000 psi artificial lift gas into the wellhouse. An ignition source, possibly a spark from lights or other electrical equipment damaged by the blast, ignited the gas. The subsequent fire was sustained by high pressure gas from the 3-½ “ tubing by 9-5/8” casing annulus.	Fluids have been removed with vac truck. Gravel in well cellar was removed with hand tools and super sucker. Gravel on pad area has been removed with heavy equipment and hand tools.Gravel in area where vehicle battery was located has been placed in a drum and taken to Haz-Waste Building for testing.	Liquids removed with vac truck were taken to Pad-3. Gravel in well cellar has been taken to Grind & Inject Facility. Gravel on pad was taken to T-Pad disposal pit. Gravel from vehicle battery will be tested to determine proper disposal methods.	A vehilce was also burned in the incident, trace amounts of hydrocarbons, gylcols and acids are believed to be on the pad area. All of this material will be removed once area is safe to enter and well work is completed. Clean up and disposal plan was approved by ADEC on 9/7/02.
10/2/94	1994-IR-86368	Well Pad Z	Methanol	1,050	Nowcam personnel were moving a fully loaded methanol trailer. Turning around on pad to position trailer, trailer came unhooked from towing vehicle. Trailer then ran off pad, causing spill.		The material that was retrieved was re-used for freeze protection.	While moving a wheeled methanol tank with a pickup truck, the operator of the truck was attempting to make a turn. During the turn, the pintle hitch opened (detaching from the truck) and the methanol tank continued to roll. The methanol tank rolled off
4/5/93	1993-IR-86721	Well Pad S	Seawater	1,050	The handle to the shut-off valve was broken at the joint under the frac truck giving the operator the false indication that the valve was closed. When the operator disconnected the hose, the seawater spilled out onto the pad. The spill material was contained and scraped up with a grader and all materials transported to T-Pad for disposal.		All materials were hauled to T-Pad for disposal.	Handle to shut-off valve was broken at the joint under a frac tank, giving operator false indication that valve was closed. When operator disconnected the hose, the seawater spilled out onto pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/1/93	1993-IR-97888	Drill Site 04	Methanol	1,050	Leak in lateral grease fitting valve. Material leaked into the reserve pit.	Metis/Cleanup		Leak in lateral grease fitting valve. Material leaked into the reserve pit.
1/12/90	1990-IR-96896	Drill Site Maintenance	Fresh Water	1,050	"While circulating water to thaw out frac tank, hose came loose."	YES -		"While circulating water to thaw out frac tank, hose came loose."
5/29/90	1990-IR-97002	Seawater Injection Plant	Seawater	1,050	Loading valve was left open after filling tanker.	YES -		Loading valve was left open after filling tanker.
10/9/89	1989-IR-96782	Spine Road, Not specified	Diesel	1,050	"Tank/trailer overturned, and released material."	Not specified	Not specified	Not specified
10/17/82	1982-IR-96091	Flow Station 1, Not specified	Crude Oil	1,050	Ruptured hose	Not specified	Not specified	Not specified
2/2/01	2001-IR-98910	Northern Gas Injection (NGI)	Seawater	1,008	Job Description for NGI-4 with CTU #5: The crew had completed a successful Inflatable Bridge Plug set and sand dump. The fluid involved in the spill was a makeup of KCL, diesel, hydrocarbons and Methanol. Crew change occurred at 18:30 hours. At approximately 19:30 hrs a 500 bbl tiger tank was strapped with a plumb bob and was calculated to contain 325 bbls of fluid. No additional fluids were pumped into the tiger tank after strapping until approximately 2030 hours. At that time the crew began circulating freeze protection fluids while taking returns to the tiger tank while pulling the coiled tubing out of the well. A fluid rate of 1.7 bbls per minute was being pumped to the tiger tank. The expected quantity of fluid to be pumped to the tiger tank was approximately 90 bbls. Based on strap measurements and calculations, this would have resulted in a total of approximately 415 bbls of fluid in the tiger tank at the completion of the freeze protection process. If additional volumes would have been needed, diversion to a second existing tank would have ocurred. At about 2050 hours the crew took a 10 minute warm up break followed with a 10 minute safety meeting for the night crew while the well was being circulated. At 2110, a crew member performed a walk around and discovered fluid leaking from the top of the tiger tank into the containment dike. The crew member immediately switched flow to the adjacent open top tank and informed supervision of the leak. The operation was continued by flowing to the open top tank. BP supervision and SRT were notified immediately of the incident. An incident investigation was held at 16:30 hrs on 2/3/01. The investigation revealed the following: During strapping of tank, there was no recognition of the differences between the height of the internal dimensions of the tank and the contained fluid inside of the tank, ie; the tank was 12 feet deep and strapping only indicated 9.5'of total internal height. The tiger tank contained approximately 1 to 2.5' feet of solids thereby diminishing fluid capacity. Had this been recognized the strapping would have indicated the correct amout of fluid in the tank. Because of the operation which was in progress at the time of crew change no on-site spill champion had been specifically designated prior to the spill. The crew was in a critical operation that did not allow for a shutdown of operations for thorough handover (Sand was being pumped through the coil). The EOA SRT was involved in another event at the time and the WOA SRT was called in to evaluate the 27 bbl spill into containment. There was no fluid spilled to the ground due to proper setup of the containment dike.	Fluids in secondary containment were recovered by vac truck. The containment liner was wiped down with absorbents and disposed of into an approved oily waste dumpster. The tank was cleaned up for travel and taken to wash bay for final decon	Class II fluids taken to Pad 3 for disposal. Liner and absorbents were taken to an approved oily waste dumster.	
5/11/90	1990-IR-96979	West Gas Injection	Diesel	1,008	Left valve open and overfilled tank.	YES -		Left valve open and overfilled tank.
9/24/83	1983-IR-96130	Flow Station 1, Not specified	MEG	1,008	Block valve opened	Not specified	Not specified	Not specified
9/6/83	1983-IR-96128	Seawater Injection Plant, Not specified	Diesel	1,008	Line not secured	Not specified	Not specified	Not specified
7/28/02	2002-IR-276811	COTU Facility, The flare pit for the Crude oil Topping unit (COTU)	MEG	1,000	An ESD was triggered in plant #1 due to erratic flow caused by the post-TAPS-shutdown ramp up. Upon checking the systems, the operator found the glycol surge tank level lower than during a previous inspection. He immediately proceeded to the heating medium X fuel gas exchanger and isolated the PSV's which had lifted. Subsequent inspection of the flare pit confirmed suspicion that glycol had been released. This incident appears to be similar in cause to the event on 7/13/02, therefore an indepth investigation will follow.	4925 barrels of fluids taken to Pad 3 for disposal. 10 cubic yards of material taken to T-pad for disposal.	Material taken to Pad 3 for disposal.	Spill #02-143 (IR# 264639) and this spill combined for final report to agencies. Spill #02-143 occurred on 7/13/02 and spill #02-163 occurred on 7/28/02. Both spill were identical, it is scientifically impossible to discern between the two, as such, the spills had comingled and the spill reports were combined. Initial report submitted on 7/28/02.
8/7/06	2006-IR-1934823	GC-2, GC2 Skid 301 PWI pressurizing line., GC2/SAT	Produced Water	1,000	While pressuring the PWI line to M,N, and S pads a gauge on the pressurinzing choke failed apparantly caused by harmonic vibration	The facility sump was used to remove material from the skid.	The material went back into the GC system.	The verbal notification was made by the WOA BP enviro advisor at approximately 4:30 PM.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/10/04	2004-IR-1123308	PBOC, EOA PBOC A-WING, Non Process Area	Sewage	1,000	A cracked fitting in the pressurized wastewater discharge line from the sump tank in A-wing at PBOC was discovered spraying into the crawl space after an icecycle was seen under the building from a window. The wastewater subsiquently leaked out of the crawl area onto the ground under the wing and froze.	Contaminated ice and gravel was recovered using jack hammers and hand tools. It was then put in an open top tank and melted down for disposal.	Melted snow and ice will was to Pad 3 for disposal.	Area was covered with lime and will also be adressed in the spring.
11/12/07	2007-IR-2463902	PBOC, S-WING SEWAGE LIFT STATION., Non Process Area	Sewage	1,000	PBOC SECURITY CALLED AND REPORTED THAT WATER WAS FLOWING UNDER S-WING. EFS TECH ENTERED THE MECHANICAL ROOM AND DISCOVERED THE BREAKER ON THE PUMP CONTROL PANEL WAS IN THE OFF POSITION RESULTING IN THE SEWAGE LIFT STATION TO OVER FLOW.			
6/11/81	1981-IR-96048	COTU Facility, Not specified	Diesel	999.89	Failed tank liner	Not specified	Not specified	Not specified
6/8/81	1981-IR-96046	Drill Site 12, Not specified	Diesel	999.89	Valve not closed	Not specified	Not specified	Not specified
6/2/85	1985-IR-95925	COTU Facility, Not specified	Crude Oil	999.89	Unknown	Not specified	Not specified	Not specified
3/13/00	2000-IR-94742	Well Pad M	Produced Water	999.89	M-pad skid 59 , the 14" PWI block valve on the S-pad PWI supply line had the stem seals fail. This resulted in approx 1000 gallons of produced water spilling into the skid. A very small amount (a couple of gallons) leaked through a seam in the floor onto the gravel. The line was depressured and new seals installed. There was no obvious reason for the seals to have failed. The seals themselves were basically gone and not available for inspection , however there were no abnormalities noted on the shaft and sealing areas on the valve to indicate any potential to damage the newly installed seals. The one concern is that these seals appear to have been replace aprox. 9 months ago. They did not fail in as dramatic a fashion as this last failure. Speculation on this failure ranges from improper installation to the wrong seals being installed. Replacement seals were checked to insure they meet vendor specs and care was taken during the installation. Follow up information : MM-59 Produced Water Spill Incident Description: On 3/2/00, at startup of the S-Pad produced water supply following a shutdown for repair, it was noted that the tattle tale on the M-Pad pigging isolation valve (HV M7861, Skid M-59) was leaking, indicating a stem seal leak. A work order (W/O No. 30305127) was issued requesting that the stem seals be replaced on the next PWI S/D. The W/O noted that the leak stopped after the valve warmed up. It was also noted that the grease crew suspected that the stem seals were bad and recommended replacement. During a produced water pigging operation from M to S pads on 3/9/00, the stem seal leak was again noted. At this time, the pigging crew notified the day shift M,N,R pad operator of the leak. The operator placed a 1/2 barrel containment under the leak. During the time between that point and approximately 8:00 PM on 3/12/00, a level of approximately 2" accumulated in the 1/2 barrel. The night operator on the M,N,R pad run checked the status of the valve and leak at approximately 8:00 PM, 3/12/00. At some point between that time and following morning, the stem seals failed and approximately 1000 gallons of produced water were spilled into the skid. The spill was discovered by the chemical operator as she entered the skid during the course of her normal rounds. She reported the spill to the day shift operator. A small percentage of the volume leaked out of the skid through gaps between the floor and the wall cladding.This was recorded as 10 gallons by the environmental dept. The spill was cleaned up and the valve repaired on the same day (3/13/00). The W/O for this stem seal repair was 30305833. The mechanic who replaced the stem seals after the incident noted that both the primary and secondary seals were blown and that the shaft and the gland were in good condition. Neither the day shift operator on duty at the time of the incident or the chemical operator who discovered the spill were on the slope during the time that this information was gathered. Input was not available from either individual. The stem seals on this valve had most recently been replaced previous to this incident on 7/20/99. This work was done under W/O No. 29304030. Conclusion: The leaking stem seals on HV M7861 were recognized as an item for repair, but not as an indication of the impending complete failure of the seal. Recommendations: Consider re-evaluation of the indication given when a stem seal leak is observed. Consider arranging a forum between the field crew and one or more valve mechanics to discuss the significance of observed small-scale failures.	Material was chipped up and disposed of at Arco Pad 3.	All contaminated snow and ice will be taken to Pad 3	
10/16/02	2002-IR-341237	Flowstation Common Lines, Flow Station Three outside module 4906	Crude Oil	966.00	While corrosion technician was inspecting Cosasco fitting the plug blew out creating an uncontrolled release of gas and crude underneath module 4906. The line was ESD'D and depressured to low pressure common line pressure and then to atmosphere through the Drill Site 15 test separator.	Recovering material with loader, supersucker and hand tools.	Material will be taken to G&I for disposal.	Samples were taken by Northern testing after clean up was complete. Results showed no remaining contamination to spill site. Sampling Results were sent to BP Envirmental, as well as ADEC.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/29/97	1997-IR-91261	GC-2 Pad	Produced Water	914.90	PEAK VAC TRUCK WAS MOVING PRODUCED WATER ON THE GC-2 PAD TO UNLOAD IT AT THE SKID 407 UNLOADING STATION. THE TRUCK HAD EMPTIED TWO FULL LOADS (~300BBLS EACH) THROUGH THIS STATION AND WAS UNLOADING ITS FINAL LOAD (~150 BBLS), WHEN WATER LEAKED FROM (OR VERY NEAR) THE FILL CONNECTION. THE PEAK OPERATOR WAS IN THE TRUCK DOGHOUSE COMPARTMENT AND HAD NOT NOTICED THE LEAK UNTIL HE WAS AT THE END OF HIS PUMPING OPERATION. JUST PRIOR, A WORKER ON AN UNRELATED JOB IN THE AREA NOTICED STEAM IN THE AREA, CONFIRMED THAT A LEAK HAD OCCURRED AND WAS WALKING TO THE TRUCK CAB TO NOTIFY THE DRIVER/OPERATOR WHEN THE DRIVER/OPERATOR WAS COMING OUT OF HIS TRUCK. THE TRUCK OPERATOR SHUTDOWN THE VAC TRUCK. THE WORKER WHO HAD FIRST SEEN THE SPILL CALLED SKID 7 TO NOTIFY OPEATIONS. FROM SUBSEQUENT INVESTIGATION, IT APPEARS AS THOUGH THE LEAK HAD BEEN AT THE CAMLOCK HOSE CONNECTION FROM THE TRUCK TO THE FILL POINT, ALTHOUGH THAT WAS NOT PHYSICALLY VERIFED AS THE DRIVER DISCONNECTED HIS HOSE FOLLOWING SHUTDOWN AND HIS TRUCK WAS EMPTY. THE CAMLOCK FITTING VIEWED SUBSEQUENTLY DID HAVE A GASKET IN IT, BUT IT IS NOT CLEAR WHETHER THE IT HAD BEEN WIRED SHUT DURING FLUID TRANSFER. ADDITIONALLY, IT APPEARS THAT THE LEAK PROBABLY HAD GONE UNNOTICED FOR SEVERAL MINUTES JUDGING FROM THE VOLUME RELEASED AND NO APPARENT MASSIVE SPRAY/PRESSURE FOR A QUICK RELEASE. FROM THIS ASSESSMENT, IT APPEARS AS THOUGH THE PEAK DRIVER WAS NOT ADEQUATELY FOLLOWING TWO KEY ASPECTS OF THE "FLUID TRANSFER GUIDELINES" contained within the "BP/ARCO North Slope Environmental Field Handbook",...NAMELY TO MAINTAIN CONSTANT LINE OF SITE WITH CRITICAL COMPONENTS OF THE FLUID TRANSFER AND TO NEVER LEAVE TRANSFER OPERATIONS UNATTENDED. HAD EITHER OF THESE TWO BEEN ADHERED TO BETTER, THE LEAK MAY NOT HAVE BEEN ALLOWED TO BECOME A SPILL.		The material has been delivered to Pad 3 to be melted and injected.	Incident occurred while transferring fluid during sand jet operation at the Dirty Water Station. During the third off-load operation, a connection came loose or iced up at block valve. Fluid sprayed and spilled onto the gravel pad at Skid 407.
9/10/07	2007-IR-2403109	Lisburne Production Center, LPC Liquid Flare Pit secondary containment tank, GPMA	Crude Oil	880.00	During a pigging run to the LPC, a major slug event in the oil Processing Train, caused a HiHi level carryover of crude oil from the Treater Flash Drums and Crude Oil Surge Drum, into the LP Flare header system. This overtaxed the LP Flare KO Drum flare pump 42-1519 and its ability to pumpout the carryover liquids. Hi level switch L002SH was tripped, causing an overflow valve L002V to open to the liquid Flare Pit which in turn allowed the crude oil to flow to the flare tip, ignite, and flow into the secondary containment tank which is located under the flare tip. This tank is there to catch any dribbling liquids from this tip and prevent them from hitting the ground in the diked liquid flare tip area, which is itself a containment area by design. This crude was totally contained in the secondary containment tank, where it continued to burn, until it was put out by Incident responders. The burn continued from the initial spill time at 11:40a until the flame was snuffed out at apx 2:20pm. No crude was spilled on the ground during this event.	Free standing fluids have been removed from containment with Vac truck. Residual solids will be removed with Super Sucker. Will pressure wash containment basin before reigniting flare.	Vac truck/Guzzler cleanup with liquids to Pad 3 and solids to G&I.	
3/25/06	2006-IR-1771160	Seawater Injection Plant, Seawater Injection Plant module 4931 diked area just to the west side of tank 31-1904, FS1/SIP/STP	Seawater	840.00	Found fluid leaking out of insulation on line 24 AW 31-10503 ET just before the valve that ties into the Dirty Water Tank 31-1904. Secured the line and called it in at about 14:45pm.	The water in the containment pit was removed with vac-trucks and the contaminated gravel left behind was recovered with a super sucker.	The recovered fluids were taken to Pad-3 oily waste injection, and the contaminated gravel was taken to the west pit at Pad-3 for future remediation.	Agencies were notified of release.
7/27/93	1993-IR-89863	Well Pad P	Drilling Mud	839.91	While gas was being circulated through the choke, a valve was left open on the venting causing drilling mud to spill.		Contaminated gravel taken to Pad 3.	While gas was being circulated through the choke, a valve was left open on the venting causing drilling mud to spill.
5/6/76	1976-IR-95986	COTU Facility, Not specified	Crude Oil	839.91	Oil escape fm flare	Not specified	Not specified	Not specified
7/15/89	1989-IR-96720	Drill Site 15, Not specified	Seawater	839.91	Steam coils leaked.	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/19/89	1989-IR-100869	Not specified	Seawater	839.91	Connection leaked	Not specified	Not specified	Not specified
5/21/89	1989-IR-96651	Drill Site 14, Not specified	Seawater	839.91	Leak in flowline.	Not specified	Not specified	Not specified
11/17/77	1977-IR-96003	Drill Site 05, Not specified	Crude Oil	839.91	Ln leak to pad	Not specified	Not specified	Not specified
2/22/06	2006-IR-1733756	Seawater Injection Plant, SIP 49101 WHRU of 15102., FS1/SIP/STP	MEG	800.00	SIP had a spill from 15102 injection pump's abandoned waste heat recovery unit, on the roof of 49101. This unit was not in service, but had glycol flowing through it. The operators blocked in the glycol flow in preparation for abandoning the process heat system. The glycol cooled, and it is believed a flange leak occured in the box of the waste heat. Glycol subsequently leaked from the waste heat housing and was released to the gravel pad and spread over the surrounding roof area by high winds. As glycol continued to drip from the roof and building exterior a portable fold-a-tank was placed under the drip line to capture fluids. Initially approximately 300 gallons was released to the pad and about 500 gallons was contained in the fold-a-tank. A few days later the fold-a-tank was ruptured by falling ice from the roof of the building and the 500 gallons in the tank was released to the gravel pad. The initial release was reported immediately to ADEC, ADNR and NSB as an estimated 200 gallons. Once the final estimated volume of released material reached 800 gallons, the release became subject to immediate reporting to the NRC. An NRC report was completed on 3/30/06.	Water wash was performed initially on exterior of module. Heavy equipment and hand tools were used to collect and flush contaminated gravel from the pad around and under the module.	Contaminated snow and ice will be taken to T-pad and the water used for flushing will be sent to Pad-3 for disposal.	Contaminated snow was tested for selenium and the result was ND.
4/23/93	1993-IR-100842	West Beach	Crude Oil	797.91	Valve left opened on a tank during a flowback operation.	Metis/Cleanup		Valve left opened on a tank during a flowback operation.
7/27/84	1984-IR-96143	Well Pad, Roads, Not specified	Methanol	797.91	Truck overturned	Not specified	Not specified	Not specified
8/5/94	1994-IR-98244	Flow Station 3	Seawater	759.92	"O-ring seal blew out on pig launcher, releasing seawater inside module 4940. Approx. 60 gallons ran out door onto pad."	"Squeeges, vacuums, and mops were used to pick up seawater inside module. Bobcat loader and shovels were used to pick up gravel contaminated with seawater outside the module. - Recovered liquids were re-cycled at FS 1 on 8/5/94. Gravel was taken to Pad		"O-ring seal blew out on pig launcher, releasing seawater inside module 4940. Approx. 60 gallons ran out door onto pad."
2/21/00	2000-IR-100673	Lisburne Production Center	Fresh Water	753.92	Solenoid malfunction caused foam skid to activate. Non-reportable due to chemical inside building with no RQ or air release.	SRT recovered product with mops and rags and material taken to Pad 3 for disposal.		Solenoid malfunction caused foam skid to activate. Non-reportable due to chemical inside building with no RQ or air release.
10/16/07	2007-IR-2438924	Flow Station 1, FS 1 under 4958 and 1491 heater, FS1/SIP/STP	MEG	700.00	After electrical problems last night we had zone 1 glycol pump shut down and experienced low levels in the expansion tank. Filled expansion tank, restarted glycol pump, checked heaters outside to look around, didn't see anything outside so started heater. We experienced a low low level in expansion tank, with caused the pump to shut down, but then the pump proceeded to restart and hammer the system repeatedly until I could shut down the pump. Then the leak was identified on the shut down heater. Shut every thing down and isolated 1491 heater.	Free standing fluids recovered with a Vac truck. Contaminated gravel excavated using a Super Sucker, bobcat and hand tools. Area was rinsed and the fluids were removed with a Vac truck.	Fluids were sent to Pad 3 for disposal. Contaminated gravel went to Pad 3 for storage and remediation.	Post clean up sample show residual amounts of glycol. SRT will monitor the area and further clean up of the contaminated soil will be suspended until spring.
9/26/00	2000-IR-95435	Flow Station 1	Seawater	699.92	Crews working on well NGI-4 bled off the well into the blow down common line. Well was shut in when it was noticed that they were getting liquids. Liquids escaped down the common line to the unlined blowdown pit when the DSO bled gas to the line during state testing of well safety systems. The Wells Group is responsible for the 126 gallons of methanol that was spilled. The Production Department has had the remaining 700 gallons of seawater/oil attributed to them.	Water removed, hot water flush	Pad 3	Spill was at NGI
3/26/91	1991-IR-97668	Drill Site 11	Diesel	671.93	Broke valve off when backing up to tank.	YES -		Broke valve off when backing up to tank.
2/13/05	2005-IR-1243381	Point MacIntyre, Flowback tanks used on P1-05 fill clean out., GPMA	Seawater	660.00	Coil tubing unit #4 was cleaning out fill from well P1-05, taking wellbore returns to an open top flowback tank. Too much volume was put into the flowback tank before flow was routed to the adjacent tank, resulting in approximately 12 barrels of KCL water overflowing into secondary containment. SRT was promptly notified. No fluids escaped onto the pad and the spill was cleaned up and taken to Pad 3 for disposal.	A vac truck was dispatched immediatley to recover the fluids in the containment pit. All the fluids were recovered. The contaminated snow and ice arount the tank will be recovered with hand tools and a loader and dump box when they remove the tanks.	The recovered fluids were taken to Pad-3. The contaminated snow and ice went to G&I for disposal	Review meeting held at Schlumberger Deadhorse Facility with representation from crew involved, BP field representative, BP Environmental Advisor / HSE Advisor, SLB HSE / Management.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/12/05	2005-IR-1279450	Central Compressor Plant, Greater Prudhoe Bay Central Compressor Plant Module 4978 Turbine Compressor Hydraulic Skid, CGF/CCP	Hydraulic Fluid	650.00	At approximately 1730 hours a 1.5 inch valve on the seal oil system suffered a stem packing failure. The failure went unnoticed due to other upsets in the plant and allowed seal oil to discharge to the module floor. The result was apporximately 800 gallons of spilled seal oil. After gaining access to the turbine skid, inspection revealed that one of the nuts that held the packing gland in place had vibrated loose and allowed the packing to blow out thereby releasing the seal oil.	The turbine oil was recovered with drum vacs and a vac truck. asobant pad were used to wipe down the area affected.	The oil recovered with drum vacs and the vac truck was taken to GC-2 for recycle and the absorbents were disposed as oily waste.	The initial volume reported on the verble report was 400 gallons. It took 650 gallons of turbine oil to bring it back to normal operations so the final total volume spilled will be 650.
7/12/00	2000-IR-95160	Flow Station 2	Lube Oil	649.93	A hydraulic line in Module 4932 (Flow Station 2) parted due to vibration/ fatigue. The spill response team and facility technicians helped to clean up the spill inside the module. There were approximately 10 gallons of product that leaked through the soffits of the building and underneath the module. The SRT cleaned up the spill material from underneath the module.	The spill response team and facility technicians helped to clean up the spill inside the module. There were approximately 10 gallons of product that leaked through the soffits of the building and underneath the module. The SRT cleaned up the spill mater		Liquid was vacuumed up and pumped into the floor sump.
2/20/91	1991-IR-97629	Pad 10	Diesel	649.93	Diesel fuel line was broken during snow removal.	Metis/Cleanup		Diesel fuel line was broken during snow removal.
12/19/89	1989-IR-96295	Pad 10, Not specified	Diesel	649.93	"Unknown vehicle backed into tank supports, and fluid spilled out."	Not specified	Not specified	Not specified
6/1/99	1999-IR-100919	Lisburne Production Center	Produced Water	643.93	Hose rupture. This spill is NON REPORTABLE since chemical was in containment - NO RQ.	Swept material back in sump with vac cleaner.	LPC sump	Hose rupture. This spill is NON REPORTABLE since chemical was in containment - NO RQ.
8/11/06	2006-IR-1940118	Drill Site 01, DS1 manifold building, 4901, well 1-11 SWI header, FS1/SIP/STP	Seawater	630.00	During freeze protect operations for field shutdown, operator found leak from gauge tap on 1-11 header. Leak appeared to be coming from a backwelded fitting between weld-o-let and stainless steel instrument valve fitting. Operator secured injection to line, reported spill and began clean up operations.	Vac truck was used to remove fluid's from Mod.	Fluid's were brought to Pad 3 for disposal.	All Agencies were notified.
9/19/06	2006-IR-1984938	Well Pad A, Well A-43, GC3	Crude Oil	630.00	Well A-43 is a shut-in trouble well with a shallow surface casing leak. The well has a history of outer annulus pressurization which has caused fluids come to surface through the flutes in the conductor by surface casing annulus when the outer annulus pressure exceeds 90 psi. The following describes the spill to secondary containment that occurred on this well: 09/07/06: The OA on well A-43 was left open to an open-top tank rigged up to the well with a continuous bleed. 09/17/06: A reverse out skid was rigged up in the hard-line to the open-top tank to prep for loading the OA with Sodium Chloride (Brine). 09/17/06: An attempt was made to bullhead Brine down the OA to kill the OAP. The well was left rigged to the tank through the reverse skid. 09/18/06: Field Operator found fluid actively spilling to surface, up the flutes, and into the well cellar. DHD responded to a call heard on the radio and re-opened the bleed to the open-top tank. Once the bleed to the tank was restored, the fluid stopped flowing out the flutes and into the cellar. The proper notifications were made and the spill response crew pumped out and the cellar and cleaned the area. The recorded volume of cellar fluid was 15 bbl. An additional 50 bbl of fluid that had accumulated since 9/07/06 during the continuous bleed was pumped out of the open-top tank.	The free standing liquids inside the well cellar were removed with a vac truck and squeegees.	Material was taken to GC-2 to be recycled.	Walt Sandell with ADEC inspected site and stated only the 630 gallon volume spilled into well cellar will count as a spill. The 50 bbls bled into the tank was not considered part of the spill. This well cellar has a concrete floor with steel sidewalls.
10/15/07	2007-IR-2439993	Flow Station 2, DS 16 D Common Line first expansion joint, second elbow, from the FS2 pad., FS2/COTU	Methanol	630.00	Operations was trying to thaw a freeze plug close to the FS2 end of the DS16 D commonline. 45bls of Methanol was pumped into the commonline in an effort to thaw ice plug. This process raised the line pressure above 300lbs. The line was left at this pressure while a FLIR camera was used to try and pin point the cold section. At approx. 1315 hrs the pressure dropped quickly. Operations investigating the sudden drop discovered a spill event just off the edge of the FS2 Pad. Changed the Release To: to Tundra and the request of Mike McDaniel. Melba Wallis 11/8/07	Free liquid contaminates were vacuumed off the ice. The ice was melted and the area flushed with warm water. Fluids were recovered using vacuum truck.	Recovered fluids sent to Pad 3.	15 Samples taken as per ADEC. 2 samples show contamination above clean up levels. Clean up will resume as soon as pipe repair is complete. It should be noted that the methanol/water mixture spilled was 60% methanol / 40% water.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/30/07	2007-IR-2323732	GC-1, SKID 407, GC1	Produced Water	630.00	15 BBLS of produced water leaked to containment in Skid 407 when a tubing became disconnected on a flow meter. After investigating the incident the most likely cause was a loose tubing fitting due to vibration and thermal cycles.	Material was recovered in a sump in the skid.	The small amount that leaked outside the skid was recovered using a Bobcat and hand tool and taken to DS-4 Grind and inject facility. The liquids inside the skid was placed back into the facility sump and recycled.	An initial notification was made on 6/30/07 by the WOA environmental advisor at approximately 0200 hours.
6/21/93	1993-IR-88860	Well Pad Z	Crude Oil	629.93	Z-Pad Operator entered pad area, heard loud hissing sound. Upon investigation found Z-29 well releasing oil and gas from S-Riser / wing valve proximity into the wellhouse and surrounding areas. Operators L. Magiera-Rovin and D. Hejl immediately shut in well remotely and diked the perimeter area of well house with sorbent and gravel. Supervisor and Spill Response Team notified per BPX procedures.		The contaminated gravel was temporarily staged in a containment pit until the Kuparuk River bridge opened, then transported to Arco Pad 3.	Corrosion caused a hole to develop immediately downstream of the wing valve on the production line.
12/4/00	2000-IR-100594	Well Pad D	Crude Oil	629.93	D-86 flowline on or about 12-4-00 froze and ruptured causing a spill of oil mist in the area off of D-pad access road. This spill was discovered while dealing with a much larger spill which occurred when dead crude was inadvertanly pumped through the line rupture noted here. Full details are covered in LCIR 23998.	Heavy Eqmt Removing Contaminated Snow and stockpiling.	Snow to be melted & injected downhole at Pad 3 as E&P exempt waste.	See LCIR 23998 and associated incident investigation report
12/3/91	1991-IR-97598	Drill Site 06	Seawater	629.93	Tank leak due to corrosion damage.	YES -		Tank leak due to corrosion damage.
1/12/85	1985-IR-95922	J Pad, Not specified	MEG	629.93	Loader broke drn va	Not specified	Not specified	Not specified
3/2/86	1986-IR-96177	Surfcoat Pad, Not specified	Diesel	629.93	Caused crack in pip	Not specified	Not specified	Not specified
6/28/78	1978-IR-96005	Surfcoat Pad, Not specified	Diesel	629.93	Diesel on pad/pond	Not specified	Not specified	Not specified
6/13/77	1977-IR-95997	West Dock, Not specified	Crude Oil	629.93	Oil sheen	Not specified	Not specified	Not specified
5/29/83	1983-IR-96112	Flow Station 1, Not specified	MEG	604.93	Leaking drain line	Not specified	Not specified	Not specified
3/25/98	1998-IR-90685	Well Pad C	Crude Oil	599.93	On well C-39 a 3/4" nipple located at 6 o'clock on the well flowline was sheared when it struck a VSM. As a result a spill of crude oil estimated at 600 gallons (2271 liters) occured. The saddle slipped off of the VSM and the pipe moved approx. 2' when the well was put on production. The nipple and VSM are located on the west side of skid 52 C-pad. This is a high pressure cycle well, it is not known at this time what caused the well to slug hard enough to move the pipe. It would be considered an annomaly to have a lowpoint drain on well flowlines in this location, no others are known and inspections are underway to be sure none exist. Once clean up is complete this lowpoint tap will be removed and the line secured prior to be putting back in service. The following statement was from the Operators. On the evening of 3/25/98 at 2100 hours, Production Control Center requested Cycle Wells C-28 and C-39 be popped. The pad operator proceeded to pressure up C-39 and C-28 to Skid C-58 by opening the SSV and wing valve to the inlet SDV inside Skid 58. The wind was out of the NE with blowing snow and speeds from 15 to 30 knots. The operator got in his truck to drive to Skid 58 and while driving there he passed by Skid 52 and heard a blowing noise louder than the wind noise so he rolled down the truck window and smelled a gaseous mixture. At that time he knew there was some type of leak. As C-28 flowline is on the opposite side of the pad, the operator surmized that C-39 was the problem area. The operator backed up to the pad and went to C-39 and tripped the Surface Safety Valve and closed the wing valve. He then went back outside the well house and heard the leak subsiding. He returned to the well house and closed the master valve and bled the tree cap off so the source of energy was isolated. The operator then called the Production Control Center to take C-39 to LP. He then drove to Skid 58 and closed the choke isolation valve, opened the drain valves to the slope oil tank and the vent to atmosphere, and called Production Control again to verify all diverts were closed. At this point all other energy sources from the skid side were isolated and safed out. At 2130, the operator called Production Control Center to report that the leak was secure and that they should inform the Field Operations Team Leader of the incident.		RCRA exempt snow, wash water, and gravel was disposed at ARCO Pad 3.	A 3/4" nipple located at 6 o'clock on the Well C-39 flowline was sheared when it struck a VSM. As a result a spill of crude oil estimated at 600 gallons (2,271 liters) occurred. The saddle slipped off of the VSM and the pipe moved approx. 2' when the w
1/22/98	1998-IR-90397	GC-1 Pad	MEG	599.93	A MEG spill occured from a break in the heat trace to scrubber 9557outside Skid 19. Leak was found on isolation union connecting carbon steel to copper heat trace. Root cause was failure of molded nylon isolation gasket. Recommendation from CIC is to replace with standard unions.		Contaminated material was transported to ARCO Pad 3 for Class I non-hazardous disposal.	A molded nylon gasket in an isolation union connecting carbon steel to copper line failed on the heat trace line between Skid 19 and Skid 22.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/12/85	1985-IR-95933	Drill Site 06, Not specified	Crude Oil	587.94	Uprighted tank leak	Not specified	Not specified	Not specified
8/1/92	1992-IR-88047	GC-1 Pad	Seawater	545.94	During a displacement pigging operation, workers left the tank site without closing the block valve. They entered the skid and opened the pig launcher which allowed fluid to gravity feed into the tank causing it to overflow.		Attempting to haul material to Arco Pad 3. If unacceptable, because of pit levels, the material will be placed into the lined T pad storage pit.	Workers left the tank site without closing the block- in valve, opening the pig launcher, which allowed material to gravity feed into the tank causing an overflow.
8/7/00	2000-IR-95268	Lisburne Production Center	Crude Oil	527.94	A carryover from the STVIP suction scrubber occurred during LPC plant upset. The carryover went to the LP flare KO drum. The carryover was too great for the pump to keep up with so the crude was diverted to the liquid flare pit.	The spill response team was notified and will begin cleanup ont he spill as soon as possible (8/7). The cleanup work has started at the spill site (8/8).		
9/5/93	1993-IR-89057	Well Pad N	Produced Water	503.95	N-3 flowline developed leak spilling approximately five barrels process fluid onto the tundra and water. Spill carried for approximately 100 yards with sheen extending to about 300 yards. The SRT was called to the scene and dams were put in place to prevent migration. Spill is in the process of being cleaned up. 'N' pad was shutdown to isolate leaking flowline. Flowline has been blinded and pad put back in service.		Solids were taken to Pad 3. Liquids taken to T-pad for temporary storage. Liquids will be disposed of at Pad-3.	Hole in flow line due to corrosion.
1/9/89	1989-IR-96290	Drill Site 03, Not specified	Seawater	503.95	Faulty valve leaked	Not specified	Not specified	Not specified
10/21/77	1977-IR-96001	COTU Facility, Not specified	Diesel	502.95	Valve failure	Not specified	Not specified	Not specified
8/26/06	2006-IR-1954485	PBOC, PBOC wastewater treatment plant, Non Process Area	Sewage	500.00	At about 9:15 pm, the abf wetwell pump failed to come back on after a backwash cycle. The wastewater within the wetwell overflowed.	Minimized wastewater release to ground by making a dam to prevent it from going out the garage door. Estimate 50 gallons went out garage door to tundra. The remainder was contained within the wastewater module, recovered and reprocessed. Recovery was primarily completed using a vacuum truck.	Material released to facility module was removed with vacuum truck and returned to process. Material released to tundra was flushed with lake water.	Material released was grey water mixed liquor from the wastewater plant that had received some amount of treatment prior to the release. Raw sewage or influent was not released.
4/20/01	2001-IR-101278	Seawater Injection Plant	Seawater	500.00	While making the initial round at the start of the night shift the Sea Water Injection Plant Operator discovered water accumulated in the floor of injection pump module 49401. Further investigation revealed a large volume of sea water spraying from the lower portion of the high pressure switch for 15101 injection pump. The Operator isolated the switch sensing line from the main header and stopped the flow from the switch. Closer inspection of the switch showed a small hole just below the diphram of the switch housing. Early inspection points to corrosion as the cause of the of the hole and subsequent leak. The defeated switch was entered into the defeated safety device log until it was replaced the next day.	Used loader with scratcher and bucket as well as Bobcat with scratcher and bucket to pick up contaminated snow and gravel. Jackhammer used to free frozen product from pad.	Snow taken to Pad 3 East Pit. Gravel to Pad 3 West Pit.	Original estimate of 360 gallons was increased to 500 gallons as pool of Seawater was found under snow berms. This information provided to ADEC per 18 AAC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/5/07	2007-IR-2113447	Drill Site 03, DS-3 Reserve pit., FS2/COTU	Corrosion Inhibitor	500.00	Early this evening the Drill Site 3 operator found a corrosion inhibitor spill over the D.S. 3 reserve pit. At this time it is unclear how much chemical has been released, however it is substantial. The release appears to have come from a partial separation of a ¾ inch trunk line. The system has been shut in and SRT is using a vac-truck to recover the material. When clean up is completed we will have access the point of failure for further review. On, January 5th, 2007 at approximately 17:15 hrs, the Drillsite 3 Operator and a SRT worker found 500 gallons of pooled Corrosion Inhibitor chemical (C.I.) in the reserve pit at Drillsite 3. The C.I. system was originally installed in 1996 and has been in continues services since that time. In 2005 a walking speed survey of this pad was conducted, the focus of this review was to identify and upgrade locations where C.I. lines cross over flow lines and to insure that all chemical lines are secured properly (every five feet with the proper banding). The area of this failure was surveyed and found to be acceptable. The location of the damage that resulted in the release was at an assembly where two significant changes occurred. First a ¾ inch tee was in the trunk line with the flow of the trunk continuing through the leg of the tee transitioning from well flow line 3-14 to well flow line 3-34 which crosses approximately two feet above 3-14 in an ¿X¿ pattern. On the downstream side of the tee is a 3 / 4 to 3 / 8 inch reducing bushing, then a 3 / 8 connector to a needle valve, and finally the C.I. supply tubing to well 3-14. This entire assembly is tightly attached to the 3-14 well line. Beginning before 12/26/2006 well 3-34 was in period of pressure and AL flow fluctuation that likely resulted in movement of the well line. On January 2nd there was a spiked (drop) in AL flow that would have caused a spike when it came back up this spike coincides with the pressure drop in the C.I. system. Any side to side movement of well line 3-34 resulted in strain being place on the C.I. system assembly in question. The location of the release was from the first 3 / 8 fitting down stream of the 3 / 4 tee. This fitting was bent which compromised the metal to metal seal especially when lateral pressure was place on the leg of the tee caused by movement of the 3-34 well line. It is reasonable to assume that this 3 / 8 fitting and had sustained this stress for over ten year, at least since to system modification that occurred in 2005. The well 3-34 AL spike on January 02 caused the leak to begin. After the system had been compromised the damaged seal still held 700 PSI, this pressure kept the low pressure switch from shutting off the pump.	Standing fluids were recovered with a vac truck and sent to C-Pad where they could be reused. The contaminated snow and gravel was flushed with warm water to recover the rest of the spill	Recovered product was sent to the chemical tank (Corrosion inhibitor) at the C-pad facility where it could be reused. Recovered flush water was taken to Pad-3 for disposal.	NOTE: This is the Final report. Sample results showed clean up below clean up standards. Amanda Stark of ADEC approved clean up.
7/11/01	2001-IR-53663	GC-3 Oil Section, Gathering Center 3 Skid 6 AHOA-03-0010 (Air Handler)	MEG	500.00	The job in progress involved safing out a air handler and heater core for maintenance on a temperature control valve in the glycol piping. The supply and return valves on the MEG piping were closed to facilitate the energy isolation.The valve on the return side of the MEG system had been difficult to actuate but indicated closed. Oil/Gas operator opened other valving to begin depressuring and draining of the system. Shortly after opening the valve to the drain piping the operator encountered uncontrolled discharge in the heater cabinet area. Due to the temperature of the MEG and volume discharging, the Operator had to leave the area before further isolation could be attempted. The operator then called and requested assistance in Skid 6. The air intake to the Atlas Copco air compressor was coverd at this time to prevent ingestion of MEG into the unit. After assistance arrived the decision was made to isolate the system in Skid 25. Once the valves were closed in Skid 25 the pressure blead off and cleanup was called in.	Special Services (Veco) was called in and facilitated the cleanup with assisitance of Peak equipment services. The free standing MEG was vacuumed up with a vac truck and the contaminated gravel will be removed and disposed of at the appropriate location.	Gravel and liquids will be disposed of at Pad-3.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300.
3/29/04	2004-IR-849255	Well Pad S, S-Pad, GC2/SAT	Sewage	500.00	SPO for the camp noticed there was a liquid on the ground. With further investigation, he found that a 2" PVC pipe had pulled out of a glue on type connection. This allowed water from the kitchen to spill onto the gravel pad instead of going down the line and into the holding tank.	The contaminated snow and gravel was removed from the pad with heavy equipment, jackhammers and hand tools.	Contaminated snow and ice will be taken to T-Pad Storage Pit and final disposal location will be Pad 3.	
12/18/05	2005-IR-1659762	U-03 (Water/Wastewater), U3 building and ground below the building, Non Process Area	Sewage	500.00	The potable water suppy to MCC was shut off during a pipe modification. Whe the potable water supply was turned back on the flushometers at the MCC camp continued to flush which filled the sumps and continued to pump into the wastewater tank at U3 causing it to overflow. *note added Jan 9, 2006: This incident required verbal reporting to ADEC and EPA in 24 hours, which was conducted. However, the follow up written report due in 5 days was not submitted by Anchorage HSE until Jan 3, 2006 - which was sixteen days after the incident.	A Vac truck was used to pick up as much liquid as possible inside the building followed by a disinfectant wash. The ground underneath was flushed with warm water and lime was spread out underneath after the flush.	Recovered fluids and flush water were taken to Pad-3 for disposal.	
11/11/01	2001-IR-133046	Main Construction Camp (MCC), unit 90 module 4924 MCC pad central laundry	Fresh Water	500.00	A plugged laundry drain caused the release of water into the utilidor and eventually onto the pad under the Laundry module	Recovered liquids with Vac truck. Remaining material was jack hammered up from frozen pad and placed into dump box for disposal at Pad 3. Lime was spread over entire area upon recovery of all accessible material.	70 cu. yrds of material taken to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/19/93	1993-IR-89854	Drill Site 03	Diesel	499.95	While filling a Tioga tank, the contract operator turned his attention elsewhere and the tank overfilled.			While filling a Tioga tank, the contract operator turned his attention elsewhere and the tank overfilled.
3/23/98	1998-IR-90687	GC-3 PWH Section	Crude Oil	499.95	On 3/23/98, 0507hrs, the Skim Oil Tanks T-8511/12 overflowed into the containment dike. High winds from the NE carried some of the oil mist on the surrounding pad. The facility was in the process of restarting after a controlled facility shutdown which had occurred late in the previous day shift. The perimeter and bank SDV's at the facility were never closed. The well pad chokes were rolled back to minimum with the well pad divert valves closed. Production came on line faster than the operators anticipated, and tank levels rose to an overflow state.		RCRA-exempt material was taken to ARCO Pad 3 for disposal.	Gathering Center 3 was shut down due to a gas release event (inside skid- no release to the atmoshere)
5/30/89	1989-IR-96656	Drill Site Maintenance, Not specified	Diesel	499.95	Valve vibrated open on truck hauling diesel.	Not specified	Not specified	Not specified
9/26/88	1988-IR-96517	Drill Site Maintenance, Not specified	MEG	499.95	Tubes not drained	Not specified	Not specified	Not specified
7/5/83	1983-IR-96119	PBOC, Not specified	Lube Oil	499.95	Broken drain pipe	Not specified	Not specified	Not specified
6/12/83	1983-IR-96117	Flow Station 2, Not specified	Diesel	499.95	Leaky valve	Not specified	Not specified	Not specified
2/2/95	1995-IR-86044	GC-3 PWH Section	Crude Oil	499.95	A CPS power blip shut down the GFC transfer pumps in Skid 515. This flooded the overflow Weirs to the T-8513 skim tank. The power blip also shut down the transfer pumps out of T-8513. Before the DCS operator could correct the problem, T-8513 overflowed into the containment dike. Investigation found that the high-level shutdown for T-8513 had been removed a couple of years ago due to unreliability. This prevented the inlet SDV from closing and shutting off the flow to T-8513. Spill review estimated approximately 500 gallons of oil/H20 spilled from T-8513 into the containment dike. The GFC's also spilled about 100 gallons of liquid into a portable containment dike through their overflow lines.		The contaminated material was taken to T Pad.	
7/14/02	2002-IR-265026	Flow Station 1, FS1 module 4906A	Crude Oil	474.60	Fire and gas alarms alerted FS Operators of a probable release in module 4906. Upon responding, it was immediately apparent the discharge was legitimate. Operators proceeded to determine the source and take action to gain source control. The control room operator promptly called in the emergency for an ERT all-call. Operations' primary response was initiating the 5D common line inlet ESD valve closure, followed by blocking in/opening manual divert/header isolation valves. Source control, preventing escalation of the incident, was established at approximately 0830. Limited IMT intervention was mustered and an ICS form 201 was completed and faxed to Anchorage, followed appropriately by a situation status summary (ICS form 209). The definitive source of the release has been identified as a 12" check valve that had eroded (1 1/4" in thickness), resulting in a through wall penetration.	Recovered free liquids with Vac truck. Dewatered relief pit and insitu burned impacted vegetation.	4 cubic yards of material taken to G&I for disposal. Free liquids reused for intended purpose.	Initial notification made on 7/14/02.
1/1/95	1995-IR-98479	Drill Site 16	Crude Oil	461.95	"Coiled tubing was crimped because of excess compression during a coiled tubing operation. As the tubing was being pulled out of the well, it parted, allowing crude oil to spray onto the ground near the source and in the reserve pit."	Absorbents were used to soak up liquid around the spill source. Loader and bucket were used to scrape up the contaminated snow and ice on pad. A supersucker was used to remove contaminated gravel within the wellhouse and well cellar. - Absorbents were		"Coiled tubing was crimped because of excess compression during a coiled tubing operation. As the tubing was being pulled out of the well, it parted, allowing crude oil to spray onto the ground near the source and in the reserve pit."
12/4/94	1994-IR-86099	Well Pad X	Seawater	449.95	The spill occurred at the end of an acid wash on a flow line after a gas bubble traveled down the jumper line, through X-03 flowline, and ultimately expanded in the disposal tank, flowing fluid out the top causing the spill. The result of a spill review board investigation determined that the spill was caused by a a gas pressure surge originating from a leaking SDV.		The contaminated material was taken to Arco Pad 3 for disposal. The tiger tanks and vac trucks were taken to APC wash rack for final cleanup.	An acid job was done on the X-4 flowline. The acid was neutralized and the line was flushed with crude. The neutralized returns had gone to a tiger tank. After the job was complete and right after it was shut down, a pressure surge arrived at the tige
5/21/07	2007-IR-2272225	GC-2, GC2 Skid-452 slugcatcher water discharge leg., GC2/SAT	Produced Water	434.00	A leak in the common produced water header at the tie-in point of 'D' slugcatcher was discovered at approximately 1:45am on Monday, May 21. The GC-2 facility was shutdown within the next few hours in order to isolate this header as necessary to stop the leak and facilitate its repair. The leak was determined to be on the underside of a flanged 12" tee.	Produced water was routed into a sump located in skid 452.	The produced water was recycled back into the production process.	The initital report was submitted 05/22/07 at approximately 1:50 pm.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/15/06	2006-IR-1906672	Drill Site 09, DS 09 Unlined Gravel Blowdown Pit, FS2/COTU	Crude Oil	420.00	During the safeout of the PSV block valves in Module 4906 at FS2, the drillsite 9E commonline was commoned up with the drillsite 9 test separator purge line and used for gas venting. Crude oil backflowed thru the test separator purge line and overflowed the relief pit tank.	Sorbent boom, vacuum trucks, and skimmers were used to remove the bulk of the free floating crude. Remaining crude removed after freeze-up using heavy equipment so contaminant was confined to pit. Spring follow up was final clean up around outer edge of pit and tank and under piping with a super sucker.	Fluids were transported to FS1 for hydrocarbon recycle and to the Grind and Inject facility for disposal. Gravel and soils removed during winter and spring cleanup were sent to G&I for disposal.	All agencies were notified of release.
3/30/06	2006-IR-1779551	Drill Site 04, DS 4-13 flow line, over reserve pit. Approximately 100 ft in back of well house. , FS2/COTU	Produced Water	420.00	The flow line on DS 4-13 developed a leak over the reserve pit.	The area was flushed with with hot water to recover all standing fluids. A bobcat trimmer was used to trim up the contaminated surface of the bottom of the pit.	Flush water was taken to G&I and Pad 3. The contaminated material at the bottom of the pit was taken to G&I for disposal.	As per trends on Setcim: psi max 1950, Flow rate was less than 2000k bpd. Flow line was hard lined from riser to well 4-26 for tracer test. - No tracer was injected in 4-13's line. Release between 1430 hrs and 1630 hrs. - Well S/I at ~1715 hrs.
8/15/06	2006-IR-1942662	Well Pad G, In the cellar, behind the well, and into the reserve pit around G-21., GC1	Seawater	420.00	At 0300 hrs on August 15th, the upper boot failed in the riser on rig Nordic 3. When the boot failed, seawater was released into the cellar which overflowed onto the pad. Once the leak was noticed, the pumps were shut in and the BOP stack was drained. This stopped the release. Proper notifications were made and cleanup ensued.	A super sucker and bobcat were used to remove contaminated gravel liquids from cellar and well pad.	All the material was taken to DS-4 Grind and Inject facility.	The verbal notfication was made at approximately 0330 on 8/15/06 by the GBP WOA Environmental advisor. The initial estimate was 120 gallons but after further research the volume was estimated by the ACS spill tech to be 420 gallons
7/21/01	2001-IR-71551	Drill Site L2, On 24" L2 Common Line approximately 100 feet off the L2 Pad heading towards LPC (South of L2 Pad).	Crude Oil	420.00	On the morning of July 21, 2001 at approximately 1020 hours a crude oil release was discovered from the common line leading from Drill Site L-2 to LPC (South of L-2 DS).	Recovered with Tactic R-4 (Flushing of Oil on Tundra Surface). This method utilizes the establishment of a perimeter around the heavily contaminated area with the use of a shore seal boom supported with sandbags. The area within the containment will be flushed with water and the recovered product collected with vaccum trucks and taken to Pad 3. Lightly affected tundra will be treated with propane torches, as will the heavily contaminated area upon completion of flushing operation. Contaminated tundra collected during clean up operations will be placed in appropriate bags and disposed of as oily waste.	Recovered liquids taken to Pad 3. Lightly affected tundra will be treated with propane torches. Contaminated tundra collected during clean up operations will be placed in appropriate bags and properly disposed.	Clean up and disposal plan approved by ADEC (Walt Sandel).
9/27/06	2006-IR-1995079	Seawater Injection Plant, Seawater Injection Plant hot water loading point., FS1/SIP/STP	Seawater	420.00	While taking on a load of 140°F seawater at SIP the operator was mentoring a new driver. The gauge in the doghouse had reached 270 barrels when the operator and the new driver went into the facility to check on the water temperature. A few minutes later the new driver noticed steam coming from the area around the middle of the trailer. Upon investigation they realized they had a release. All the valves were closed and the front doghouse vent was shut in. Appropriate notifications were made. The reaminaing load in the trailer was transferred to another vac truck. The amount released to the pad was determined to 8 barrels.	Grader, Loader, and the dump box were used to remove containated material.	Seawater contaminated gravel was brought to a Seawater envirnment and benifically reused.	Agencies were notified of release.
7/22/07	2007-IR-2344385	Drill Site 12, Nabors Alaska Drilling, Inc. Rig 7ES Pump Room, FS1/SIP/STP	Drilling Mud	420.00	Centrifuge processing fluid was discharging fluid into pit #4. Equalizer valve between mud pits # 3 & 4 was closed causing pit # 4 to over flow into the pump room directly below the pits area. Equalizer valve was opened to stop overflow of pit into pump room, centrifuge was shut down, and rig crew responded to pump room for clean up operations. 5700 non-emergency spill response was notified. Drilling mud was returned to the mud pits system via pump room sumps and trash pump.	Drilling mud was returned to the mud pits system via pump room sumps and trash pump.	Returned to pits system.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/23/94	1994-IR-85925	Well Pad K	Seawater	419.96	Seawater was being transferred from a tiger tank to the rig by means of a centrifical pump. The employee assigned to monitor the pump, left his post to check for leaks from the pump to the rig. When the employee returned to the pump he observed brine running over the pump's surface liner. He immediately shut the pump down, informed his supervisor and began to investigate. The investigation revealed the pump's drain plug had become loose and had fallen out. This enabled fluid to flow uncontrollably from the pump to the surface liner. When the fluid filled the lined area it began to overflow onto the pad. The estimated fluid loss was approx. 10 bbls. Ref: Spill Report No. 94-141		The contaminated material was taken to T pad.	
3/12/97	1997-IR-98840	Drill Site 18	Crude Oil	419.95	"The 18-21 well downcomer had been re-installed by well services after a sidetrack, pressue tested and returned to service. After the well had been on production for 4 days, the 1"" downcomer drain valve plug blew out and a hydrocarbon release occured.	A Challenger was used to clean up snow on tundra. A Loader scraped up contaminated snow and ice on the pad. A Guzzler picked up free standing liquids and a pressure washer was used to clean the wellhouse. - Contaminated snow and ice were taken to Pad 3		"The 18-21 well downcomer had been re-installed by well services after a sidetrack, pressue tested and returned to service. After the well had been on production for 4 days, the 1"" downcomer drain valve plug blew out and a hydrocarbon release occured.
9/9/00	2000-IR-95357	Well Pad A	Seawater	419.95	CIRCULATORY SYSTEM WAS DRAINED. THE STANDPIPE VALVE WAS INADVERTANTLY LEFT OPEN. WHEN FLUID WAS PUMPED, SEAWATER WAS PUMPED INTO CELLAR. APPROXIMATELY 10 BBLS WAS SPILLED IN CELLAR, UNTIL PROBLEM WAS RECTIFIED. ALL FLUIDS WERE CONTAINED IN CELLAR AREA. CREW CLEANED UP SPILL. MATT LASKEY, SPILL TECH, INPECTED AREA. ADDITIONAL CLEAN UP WILL OCCUR AFTER RIG MOVS OFF (PER LASKEY). NO INJURIES OR EQUIPMENT DAMAGE RESULTED.	Seawater was pumped out into rig mud tanks and reused. Gravel was removed from cellar with hand tools.	Gravel will be taken to Pad-3 disposal facility.	Contaminated gravel has been removed from cellar and all clean up is complete. Note change of disposal location from original report on 9/9/00. Gravel will be disposed of at Pad-3 Disposal Facility instead of DS-4 Grind & Inject Facility.
6/30/97	1997-IR-89416	Well Pad A	Drilling Mud	419.95	During a fluid transfer from a vac truck to the rig pits, prime was lost on the charge pump. The rig crew attempted to reflood suction line by using the gun line's centrifugal pump system. They accidentally diverted mud to the trip tank by opening the wrong valve. The trip tank is not normally used during coiled tubing operations. The trip tank's secondary containment drain line to cuttings bin had been damaged in a rig move and had not been replaced. The drain line was on the rig's welding list but was considered low priority since trip tank is no longer used. Spill was contained with dirt dike and removed with supersucker, along with contaminated gravel.		This was a spill of returned mud (from downhole), which is RCRA exempt and also permissible for Class II disposal well injection. This material was taken to the CC2A ball mill for injection at the ball mill's UIC Class II permitted disposal well.	The coil tubing rig crew opened the wrong valve during a vac truck fluid transfer operation, and returned mud was inadvertantly diverted to the trip tank, causing that tank to overflow.
4/27/92	1992-IR-97700	Flow Station 2	Fresh Water	419.95	Overfilled open top tank into lined pit which then overfilled on to pad.	Metis/Cleanup		Overfilled open top tank into lined pit which then overfilled on to pad.
2/24/90	1990-IR-97229	Drill Site 07	Seawater	419.95	High pressure nipple on water displacement line parted	YES -		High pressure nipple on water displacement line parted
2/4/93	1993-IR-98091	Drill Site 12	Seawater	419.95	Leak from leteral valve on seawater injection line.	Metis/Cleanup		Leak from leteral valve on seawater injection line.
12/12/93	1993-IR-89807	Well Pad X	Drilling Mud	419.95	Mud pressure sensor in standpipe washed out.		All drilling mud from Supersucker taken to Pad 3 for disposal. Remaining drilling mud from bucket loader taken to the Ball Mill for disposal.	Mud pressure sensor in standpipe washed out.
4/9/90	1990-IR-97274	Drill Site 13	Seawater	419.95	Divert tank overflowed while pigging line.	YES -		Divert tank overflowed while pigging line.
2/13/91	1991-IR-97619	Drill Site 11	Seawater	419.95	Sloshed out of tank while moving.	YES -		Sloshed out of tank while moving.
10/9/92	1992-IR-97805	Drill Site 02	Methanol	419.95	Tanker was overfilled.	Metis/Cleanup		Tanker was overfilled.
12/11/89	1989-IR-96874	Flow Station 2, Not specified	Crude Oil	419.95	Exceeded capacity of sand-jet pot.	Not specified	Not specified	Not specified
4/7/79	1979-IR-96018	Drill Site 01, Not specified	Crude Oil	419.95	Wellhead valve fail	Not specified	Not specified	Not specified
6/22/87	1987-IR-96222	Drill Site 03, Not specified	Crude Oil	419.95	Valve left open # 1	Not specified	Not specified	Not specified
8/19/84	1984-IR-96145	Drill Site 14, Not specified	Crude Oil	419.95	Isolation valve lea	Not specified	Not specified	Not specified
12/7/86	1986-IR-96170	Drill Site 01, Not specified	MEG	419.95	Trck tank puntured	Not specified	Not specified	Not specified
11/7/82	1982-IR-96092	Drill Site 11, Not specified	Crude Oil	419.95	Ice blocked valve	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/23/82	1982-IR-96098	Drill Site 18, Not specified	Crude Oil	419.95	Overfilled vessel	Not specified	Not specified	Not specified
9/10/84	1984-IR-96148	Drill Site 01, Not specified	Crude Oil	419.95	Flange separated	Not specified	Not specified	Not specified
12/17/89	1989-IR-96293	Drill Site 13, Not specified	Diesel	419.95	Overfilled tank.	Not specified	Not specified	Not specified
1/21/88	1988-IR-96479	Drill Site 14, Not specified	Diesel	419.95	Overfilled tank	Not specified	Not specified	Not specified
4/26/81	1981-IR-96038	Drill Site 16, Not specified	Diesel	419.95	Tank overfilled	Not specified	Not specified	Not specified
6/4/80	1980-IR-96023	Surfcoat Pad, Not specified	Diesel	419.95	Overfilled tank	Not specified	Not specified	Not specified
11/10/77	1977-IR-96002	Pad 3, Not specified	Crude Oil	419.95	Wellhead leak	Not specified	Not specified	Not specified
7/4/79	1979-IR-96010	Drill Site 03, Not specified	Diesel	419.95	Leaky valve	Not specified	Not specified	Not specified
11/26/95	1995-IR-90827	Well Pad S	Diesel	419.95	During preparation for pressure test on tubing for RWO prep, HB&R had rigged up hardline to the tree on S-05. A new operator working on the unit had inadvertently installed the check valve backwards. At the same time, a Peak oilfield truck was hooked up to the other side of the HB&R pump truck, discharging diesel into their tank. The new operator failed to close an air valve on the inlet side. The tank overflowed, resulting in a 10 bbl. diesel spill. The diesel was contained on the pad, and Environmental was immediately notified.		The sorbents were taken to NSB oily waste dumpster . Non hazardous clean up material was taken to Arco Pad 3.	
10/10/99	1999-IR-98335	Drill Site 04	Produced Water	411.96	Welded in place gate valve on SWI pig receiver leake through and overfilled the sump. The valve does not leak under pressure and only began leaking after the SWI was taken down (SIP Repairs) and then brought back on-line.	"SRT used sandpiper pump from manifold building to suck up free standing liquid and put back into sump. Used shovels, jackhammer, and super sucker to pick up contaminated gravel from under the facility."		Welded in place gate valve on SWI pig receiver leake through and overfilled the sump. The valve does not leak under pressure and only began leaking after the SWI was taken down (SIP Repairs) and then brought back on-line.
8/13/96	1996-IR-89588	GC-1 Pad	Produced Water	402.96	Crude and Produced water from the dirty water transfer pumps in Skid 326 spilled when a seal blew which was cased by resevoir sand coming from well D-18. Well was shut in; seal repaired. A vac truck was used to clean up the free fluid and sorbents were used to wipe up the remaining material. The exempt product was reused/recycled back into the system at the facility. The used sorbents were placed int he NSB Oily Waste Dumpster for future incinderation. There was no environmental impast as all materials were contained within the skid.		The exempt product was reused/recycled back into the system at GC 1. The used sorbents were placed in a NSB Oily Waste Dumpster for future incineration.	A seal on the out board side of booster pump #P01-8007A for the dirty water system blew, causing fluid to leak into the skid.
6/3/05	2005-IR-1399773	Drill Site 04, DS4-40 conductor pipe., FS2/COTU	Diesel	400.00	DSO discovered crude / wellbore fluids dripping from conductor pipe of DS4-40. Well Integrity team bled well down and installed secondary containment around wellhead. Surrounding gravel was excavated and approximately 560 cu yds was disposed at the Grind and Inject facility. Historical contamination presumably from prior release(s) was identified layered in the pad during the excavation. Closure of this particular release was negotiated with ADEC noting that historical contamination remained in the pad. This site is expected to be managed by ADEC Contaminated Sites Division and BP Remediation Management for future assessment and clean up plans.	Fluids were initially recovered with a vac truck. A backhoe and supersuckers were used to excavate contaminated gravel from the site.	Recovered fluids were taken to Pad-3 for disposal. Contaminated gravel was disposed at the Grind and Inject facility.	Fingerprint samples were obtained from the 'fresh' release area around the wellhead and compared to the walls of the excavation in an attempt to identify existing, historical contamination in the pad, separate from the release reported in June, 2005. Results of fingerprint analyses indicated that released material was a mixture of wellbore fluids including primarily diesel and crude and that the release around the wellhead was significantly different from the material at the edge of the excavation. Release volumes were estimated based on approximately 150 cu yds of heavily contaminated soil (~3 gal / cu yd) removed from the site and an additional estimated 50 gal dispersed throughout the release site. All volumes are estimated only.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/10/05	2005-IR-1363686	Seawater Injection Plant, SIP module 15101 inside on floor outside under module and on outside walls, FS1/SIP/STP	Lube Oil	400.00	Approx 400 gallons of turbo 32 lube oil was sprayed into the turbine enclosure. Some oil seeped into soffit area and onto the ground below the module. Exact location and cause of leak was reviewed by facility personnel and engineering and is described in attached file.	Barrel vacs were used to recover Lube oil and return it back into the process. Contaminated snow under module was removed with hand tools, Bobcat, and dump box.	Contaminated snow was taken to T pad for diposal. Contaminated gravel was taken to Pad 3.	Agencies were notified of release. NOTE: While the majority of the spill has been cleaned up, the soffits under the module continue to leak residual oil to the gravel pad. Continued monitoring and additional clean up may be required.
4/8/06	2006-IR-1792408	Lisburne Production Center, Module 4923 at LPC , GPMA	Produced Water	400.00	The outboard seal on our 15004 produced water pump failed, leaking about 400 gals of produced water into the 4923 Module at LPC	Fluids were recovered with drum vacs and the floor was mopped up.	Recovered fluids were put in the LPC floor sump to be recycled back into the system.	The spill was initialy reported at 150 gallons and then raised to 500 gallons after evaluating the size. After all the fluids were recovered, it was determined that the spill was just under 400 gallons.
10/13/06	2006-IR-2015863	Well Pad X, Skid 54 process area on X-pad, GC3	Produced Water	400.00	At 1130am received a call from the PCC that we had a low gas alarm in Skid 54 at X-pad. Operations personnel evacuated incident location and made appropiate notification to Doyon Rig 14 personnel and BP Supervisor. Low level gas alarm was in with an LEL reading of 15%. Notified ERT to respond to incident at X-pad. Operations personnel were staged out side of skid 54 until ERT arrived. X-pad had been shut-in for several weeks, and all wells were shut-in and isolated prior to the incident. HVAC systems were in operation in skid 54 and PCC depressured skid 54 process piping back to the X-pad LDF. Once process was depressured and LEL levels down to 2% the ERT members responded inside of the skid with SCBA's to determine source of the leak. Once inside the skid ERT members confirmed produced water and crude on the floor of the skid, and identified source of leak on the X-1 pressure transmitter 7503 located on the well flow-line on third level of skid. Once area was safe to enter, operations personnel isolated the Rosemont Presurre Transmitter valves and elilminated any further leaking. Safety and Environmental personnel were immediately notified and responded to the scene. Safety completed a site safety assessment, and confirmed that LEL, Benzene, and VOC's were at safe levels. The ERT personnel, MCC, and On Scene command were set up on entrance of X-pad. Once Safety confirmed LEL, Benzene, and VOC were at safe levels, and source of release was isolated the MCC and ERT were released.	A vac truck was used to remove standing liquids in the skid. Sorbents and rags with chemical degreaser were used to clean affected walls and other affected areas of the skid. The small amount of material that went outside the skid one the gravel was cleaned up with shovels.	The liquids were taken to Pad 3 because GC-2 was shut down and not able to receive hydrocarbon recycle materials.	The verbal notification was made by the GPB West Environmental advisor on 10/13/06 at approximately 1:45 PM after the skid was safe to enter for an assestment.
5/10/01	2001-IR-101389	Central Gas Facility	Lube Oil	400.00	CGF Booster T/C #2 experienced a Kraissl valve bonnet gasket failure--part of the lub oil system that supplies hydraulic power for turbine controls functions--while running in steady state condition. System pressure was approximately 500 psi. Machine was SESD'ed and secured by operators. Approximately 400 gal.Ideal Plus oil was discharged but contained within the skid. This LCIR replaces LCIR 26998.	Product was pumped from secondary containment and recovered with absorbenets from floor.	Absorbents will be disposed of in oily waste dumpster. Recovered product will be recycledor disposed of at Pad 3.	This information is being provided to ADEC per 18 AAC 75.300
1/20/03	2003-IR-417467	Drill Site 14, On the gravel pad (DS-14) next to the rig, on off-drillers side.	Seawater	400.00	A fluid leak from the bottom of the cuttings box next to the drilling rig was seen at 12:15pm. A visual safety walk around had taken place at 07:00 am that morning. The leaking fluid was Brine/2% KCl returned from downhole. The leak was entering secondary containment (Herculite dike) surrounding the cuttings tank and then leaking onto the pad via a cut/rip in the Herculite (not visible, assumed below the cuttings tank). The KCl was contained on the gravel pad.	After the leak was discovered, liquids were transfered back into tank with pump until the vac truck arrived. Remainder of material will be recovered with loader and placed into dump box for disposal.	Liquids were recycled back into tank, remainder of materials will be taken to G&I for disposal.	Immediate notifications made to the appropriate agencies.
12/12/06	2006-IR-2085178	Flow Station 2, MODULE 4991 FLOW STATION TWO PRUDHOE BAY, FS2/COTU	Produced Water	400.00	PWI LINE BEING OPENED INTO SUMP, SUMP PUMP FAILED AND SUMP OVERFLOWED INTO MODULE AND INTO FLOOR DRAIN AND INTO LINED PIT.	50 gallons of the material was spilled on the module floor was recovered using barrel vacs. The material was put back into the sump to be recycled. The 350 gallons of material that spilled into containment outside the module was recovered by flushing it with hot water and recovering it with a vac truck.	Fluids recovered in the module will be recycled. Recovered flushing fluids went to G&I for disposal.	
1/11/06	2006-IR-1688156	Lisburne Production Center, Mod 4923 LPC, GPMA	Produced Water	400.00	At approximately 20:04 a seal failure on PWI pump 15004 ocurred releasing approximately 400 gallons of produced water onto module floor. No Injuries occurred and all fluid was contained within the module.	Squeegees and air vacuums were used to clean the spill.	Liquids were put in the floor sump to be recycled back into the facility.	
1/5/87	1987-IR-96183	Seawater Injection Plant, Not specified	Methanol	399.96	Overflowed tank	Not specified	Not specified	Not specified
6/10/72	1972-IR-95981	COTU Facility, Not specified	Crude Oil	399.96	Line leaked	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/27/02	2002-IR-230275	GC-1 LPS Section, GC-1 Skid 450	Produced Water	399.00	Approximately 0930 5/27/02, the scaffold crew notify SK-7 of an oil spill underneath Sk-450. The Lead and Rover did an assessment inside and outside of SK-450. Inform PCC to start depressuring Y-Pad LDF. The spill was immediatley reported as a Non- Emergency. After the line was depressure, BP Safety and ACS did a site assessment. The spill was cleaned up by ACS techs. CIC was called to do a inspection and following the removal of insulation the failed location was found to be a 4" WOL that was visually identified to have a 2" crack between the fillet weld and 24" LDF.	Liquid released to containment was recovered with a vac truck. Contaminated lines and floor was wiped clean with rags and absorbent. Contaminated gravel was cleaned up using loader and hand tools.	Gravel has been taken to T-Pad storage pit, liquids have been taken Pad-3 and contaminated absorbent have been taken to approved disposal facility.	This spill was not reported until 17:00 because there was gas venting in the building. The volume was unkown until the ACS Techs assessed the area.
2/12/06	2006-IR-1722376	GC-1, GC-1 Skid 454 outside, GC1	Produced Water	393.00	During sandjetting of SC, produced water overflowed from the spicer tank.	The material on the pad was removed using a bobcat and handtools. The material in the containment was removed using a bobcat, followed by a hot water rinse.	The contaminated snow and gravel from the pad was taken to the Grind & Inject Facility. The material in containment was taken to GC-2 for recycle.	The spill report was mistakenly submitted on February 14th as a final instead of an interim. The version submitted on February 28th is the final report. The preventative actions were inaccurate on the February 14th report and have since been corrected. Please contact the Environmental Advisor at 659-4789 if you have questions regarding this report.
4/1/06	2006-IR-1780858	Drill Site 16, Drill site 16 Well # 21, FS2/COTU	Seawater	378.00	While filling trip tank pit #5 gun line valve was inadvertantly left open allowing partial flow from transfer pump to overfill pit 5. Approximately 9 bbls of seawater returned from downhole was released onto the gravel pad outside of containment. Spill notifications were made and spill techs inspected the area. Vacuumed up free liquids and placed back into the system and final clean up will be accomplished following rig move.	Vacuumed up free liquids appoximately 100 gallons. After the rig was moved, the contaminated gravel around the well was recovered with a grader and loader and put into a dump box for disposal.	Recovered fluids were reused back in the system. Contaminated gravel was taken to G&I for dispoasl.	
6/13/91	1991-IR-97457	Flowstation Common Lines	Crude Oil	377.96	Leaked from small holes in commonline.	YES -		Leaked from small holes in commonline.
12/31/01	2001-IR-149105	COTU Facility, Module 80-4901 at the COTU facility	Fresh Water	350.00	COTU operator, as part of normal operations, began filling the 580 gallon, caustic storage tank (Tk-F260) at approximately 22:00. The process involves first emptying bags of dry caustic pellets into the tank, then filling the tank with water via a hard-piped fill line. The water fill line is fitted with a ¼-turn ball valve for controlling the flow of water into the tank. While the operator was in the process of filling the tank with water, he left the area to check on another part of the process. He was distracted by other attentions and lost track of time. At 23:20, he remembered the filling operation, returned to the area, and discovered that the tank had overflowed to the module floor. The floor area is designed such that any spilled liquids will be contained within the module area. SRT was contacted immediately. The spilled material was neutralized and clean-up operations began.	Material was neutralized and was put into drums, and is awaiting approval of disposal plan by ADEC.	Neurtralized caustic water with a PH of 5.27 will be diposed of at Pad 3. Note: PH readings were taken prior to adding 4 BBLs. of fresh water clean up.	Troopers were contacted as soon as PH levels were determend. The neutralizing proess was stsrted at that time.
10/23/07	2007-IR-2444903	Well Pad N, N-pad, well 12, GC2/SAT	Seawater	350.00	Crew had lined up to pump down coil and take returns to inside open top tank at tank farm. 50 bbl. was pumped to inside open top tank, then valves were swapped to send the last 10 bbl. to the outside opentop tank. This was verified via radio from coil hand to supervisor. Sometime later they started milling, rates were varied so as to find a good milling rate. Approximately 30 minutes later, the CH2MHILL hand on location with Klondike, came across the radio stating that the 40 bbl. tank was overflowing. It was determined during the investigation, using the time line that the Schlumberger FS had documented, when the swap from the inside open top tank to the outside open top tank happened, the right valve was closed and wrong valve was opened and this one went to the 40 bbl.tank .The result was a 8 bbl. spill of seawater w/ trace of diesel.	Clean up will consist of using a Bobcat with a 42" trimmer a loader and hand tools.	The material will be taken to DS-4, Grind and inject facility	The verbal notification was made on 10/23/07 at approximately 15:20 hours
9/9/02	2002-IR-308378	GC-3 LPS Section, Gathering Center 3 Skid 471 Glycol System	MEG	350.00	The Bulding Heat glycol system had been removed from service and deinventoried for piping and valve modifications. While the system was out of service a unit heater was removed from service to replace the core section of the heater. Part of the safe out for the unit heater required a high point bleed to be open and left open. The crew that was involved in bringing the Building Heat system back in service was not aware the heater had been safed out and the high point bleed left open. The problem was compounded by the fact the heater shared a return line with another heater on the opposite side of an adjacent wall. This sharing allowed glycol to migrate to the heater core and out the high point bleed. A total of 300 gallons of MEG leaked to the floor of Skid 471 and another 50 gallons leaked to the pad below 471. The leak was identified during a routine round as the system was being inventoried. Spill Response was notified and the MEG and contaminated gravel were cleaned up.	The standing liquid was recovered with a vacuum truck, mops and absorbent pads. The contaminated gravel was removed with loader, dump truck and hand tools.	Free standing liquid was taken to Pad-3 for disposal and contaminated gravel was taken to T-Pad storage pit.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/23/07	2007-IR-2236075	Seawater Treatment Plant, On floor level 4 STP, FS1/SIP/STP	MEG	350.00	STP contractor (GMT's) blocked in a MUA (unit heater)for draining per Operator instructions. Operator issued Unit Work permit for contractor to start draining MUA without onsite review of job, THA, lock-out or energy isolation of system. A GMT unscrewed the drain plug on un-valved drain line that he assumed to have no pressure on it. He unscrewed the plug after loosening it to check for pressure and drainage. Once the plug was fully unscrewed, a solids plug blew out. At that time the flow increased rapidly out the drain to a full flow.The block valves apparently leaked through and did not stop the glycol spill. Drums, cans and a tote were put under the spill area to help contain the spill. After a full STP building heat system shutdown and de-pressure, a valve was stabbed into the drain line and the spill ceased. The GMT's were requested to change out of wet clothing and shower to remove any MEG that contacted their skin.	Vaccumed up glycol that was not caught in containers. Absorbent pads used to wipe up remaining glycol on the floor...bagged as oily waste.	Recycled the recoverd Glycol. Sorbents sent to oily waste.	
2/5/95	1995-IR-86067	Well Pad M	Crude Oil	349.96	M-6 was shut in at the diverts to support pigging operations on S-Pad. M-6 flowline ruptured at approx 1350 psi just upstream of the inlet SDV in Skid 54. The resulting hydrocarbon release caused high gas alarms which resulted in a halon dump and shut in the wells. Upon arrival at M-Pad/Skid 54, the pad operator called the Production Control Center for a full pad shutdown and to roll ERT.			A pipe ruptured inside Skid 54 which carries production from well M-6. The escaping gases forced the module door open which allowed fluids to spray onto the adjoining module and surrounding Pad.
2/5/95	1995-IR-86067	Well Pad M	Produced Water	349.96	M-6 was shut in at the diverts to support pigging operations on S-Pad. M-6 flowline ruptured at approx 1350 psi just upstream of the inlet SDV in Skid 54. The resulting hydrocarbon release caused high gas alarms which resulted in a halon dump and shut in the wells. Upon arrival at M-Pad/Skid 54, the pad operator called the Production Control Center for a full pad shutdown and to roll ERT.			A pipe ruptured inside Skid 54 which carries production from well M-6. The escaping gases forced the module door open which allowed fluids to spray onto the adjoining module and surrounding Pad.
2/19/01	2001-IR-100560	Drill Site 07	Crude Oil	345.00	Drill site operator discovered a small, high-pressure leak inside a well house on Well number 8, during his routine inspection.	Used heavy equipment to clean pad and some of pit. Remainder of reserve pit was cleaned by shoveling contaminated snow into snowmobile trailers. Cellar area was trimmed out using Roto-trimmer and contaminated gravel taken to Pad 3 West Pit.	Contaminated snow taken to Pad 3 East Pit and Gravel to Pad 3 West Pit.	This information is being provided to ADEC per 18 AAC 75.300
8/29/92	1992-IR-97772	J Pad	Diesel	339.96	"Needle valve on sight gauge was loose, allowining material to leak out of the tank. See spill #2095 - Ongoing Remediation-"	Metis/Cleanup		"Needle valve on sight gauge was loose, allowining material to leak out of the tank. See spill #2095 - Ongoing Remediation-"
5/20/03	2003-IR-515695	Spine Road, Spine Road near the guard shack	Drilling Mud	336.66	Approximately 5 yards of drilling mud was spilled from vehicle #82185, trailer #70057 onto the spine road near the guard shack. The mud was being hauled from drill site #13 to the G+I ball mill.	Utilized two loaders and a blade to recover material along with gravel from the road bed	Taken to ball mill.	
10/9/06	2006-IR-2014077	Flow Station 1, 4915, FS1/SIP/STP	Produced Water	336.00	Operator was making normal rounds and found the 15106 water injection pump in module 4915 blew a seal. Produced water was being sprayed into the module. Produced water also leaked from the module to the gravel pad surface below. The pump was immediately shut down.	A vac truck was used to recover the fluids and a bob cat was used to recover the contaminated gravel.	The recovered fluids went to Pad-3 for disposal and the contaminated gravel went to G&I for disposal.	
2/14/91	1991-IR-97621	Drill Site 01	Seawater	335.96	"Flange leaked, again."	YES -		"Flange leaked, again."
12/15/89	1989-IR-96879	Drill Site 05, Not specified	Crude Oil	335.96	Hardline disconnected during fluid injection .	Not specified	Not specified	Not specified
8/10/00	2000-IR-95251	Well Pad S	Drilling Mud	326.96	The operator of the Supersucker on Rig 9-ES Well S101 was loading water/mud and drill cuttings from rig cuttings box. When operator went to release vacuume from the tank, he inadvertently pulled the gate release lever, allowing approximately 7.8 bbls (2.5 bbls mud, 2.5 bbls fresh water and 2.8 bbls surface hole gravel)to fall onto drill pad. Half of the material spilled from the Supersucker fell on to "Herculite". The driver immediately closed the gate locks and stopped the spill. The drilling crew and all Peak drivers immediately started cleaning the area. The material was contained on the pad and sucked back into the same Supersucker. Post incident inspection revealed that the retainer spring on the gate lock actuator safety latch was not engaged. The operator stated that he had performed a pre-job inspection but had not noticed the ststus of this spring.	Material was sucked back into the truck it was spilled from.	Material taken to DS-4 Grind & Inject Facility	none

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/11/03	2003-IR-507266	GC-2, Inside skid 408, and outside skid 408.	Produced Water	310.00	The 1/2" tubing running from the discharge of the "B" Sulzer to the pressure transmiter failed at the Swedgelock fitting. This caused 2800 psi produced water to spray into skid. Small amount leaked out of the skid onto gravel pad.	The spilled material contained inside skid 408 was cleaned up using direct suction from a Veco vacuum truck. The product that breached containment and reached the gravel pad was recovered with heavy equipment and placed into Environmental's dump truck for transport to an approved storage/disposal facility.	The material recovered inside skid 408 was recycled into Enhanced Oil Recovery at the GC-2 facility. The material recovered from the gravel pad was taken to T-Pad solid waste storage facility.	Two attempts were made to contact the North Slope Bough in the hour following the spill. There was no anwser at their contact number and no machine for leaving a message. The NSB was notified at 10:52 am on 5/12/03.
10/13/06	2006-IR-2015856	GC-3 Pad, Overhead piperack outside of Skid 26, GC3	MEG	300.00	At 0750 this morning a MEG (Ethylene Glycol) leak was discovered in an overhead piperack outside of Skid 26, by a production operator making his rounds in prep for start-up. The MEG is used to maintain our building heat in the Facility, and circulates at a temperature of 200 degrees. The leak appears to be coming from a 8" insulated line in a location that is presently resting in a saddle for support. The operator immediately made notification and requested a fast tank to capture the leaking fluid. Operations personnel responded with support in an attempt to isolate the leak. Operations personnel shut-down the circulating pumps which supply product to the MEG header system. Isolation valves were closed on the discharge of the pumps, MEG expansion tank, and MEG return line. Operations personnel are persently de-inventorying the 6" line in the pipe rack, in preparation for removal of the insulation and inspection of line. Enviornmental personnel were immediately contacted with spill notification information, and Safety Advisor completed a safety assessment of the incident. Environmental clean up is presently under way.	A drum vac and vac truck were used to remove standing liquids. A loader and shovels were used to remove contaminated gravel under the pipe rack. A super sucker was used to remove remaining contaminated gravel in areas where heavy equipment was unable to work.	Some of the free liquids were used for freeze protection on A-pad. The gravel and fluids removed by the ACS techs were taken to Pad 3.	A vac truck was used to remove remaining MEG in pipe and all the liquids in the vac truck were reused. The verbal notification was made by the GPB West Environmental advisor at approximately 08:55. Approval to close spill was given by Walt Sandell on 12/12/06.
4/14/05	2005-IR-1326516	Drill Site 09, DS-9-20, FS2/COTU	Seawater	300.00	A tank which was set in a lined area, was hooked to the coil unit and as fluid was put to the tank a discharge occurred thru and open valve that was mistakenly left uncapped. All the material release was kept in the containment liner and later cleaned up.	Fluids were recovered with a vac truck and absorbent pads were used to clean up what could not be recovered with a vac truck.	Recovered fluids were sent to Pad-3 for disposal.	Immediate notifications were made. Spilled material was down-hole fluids that consisted mainly of seawater with a diesel and methanol mixture.
11/28/01	2001-IR-139314	Lisburne Production Center, Module 22, Zone E, location of 1801 STV/IP compressor skid.	Lube Oil	300.00	A weld failure occurred on the 3/4" seal oil pump discharge line for 1801 STV/IP compressor gauge panel. Causing spill of 300 gals of Ideal plus oil inside module 22. Upon the event being discovered the pump was shutdown and cleanup commenced promptly.	Industrial wet-vac and absorb material utilitzed by Operations and Maintenance personnel.	Sumps and CHD system.	The fluid that went in to the sumps will be blended into the crude oil processing stream.sorbents to oily waste.
3/22/03	2003-IR-465184	Airport Road, From EOA Guard shack along airport road to G&I Facility.	Produced Water	300.00	A Supersucker leaked a trail of oily water from it's side tube onto the road surface from Basecamp to G&I facility. An estimate of 300 gallons ws lost during this incident. The spill was reported to all authorities, a cleanup plan was agreed upon and executed by Peak personnel. The material was recovered by blading the impacted areas and removing the contaminated snow & ice for proper disposal.	Material was bladed from surface of the road with a Grader, and loader into a Maxi Haul with a Loader.	Contaminated ice and snow was taken to G&I for proper disposal.	Walt Sandel of ADEC was on site, and all other agencies were notified.
11/20/06	2006-IR-2056734	GC-1, GC-1 yard near Skid 317, GC1	Diesel	300.00	Diesel lines to the Skid 317/318 emergency generators were being returned to service after being thawed. A valve to the bleed trailer was not fully closed and the bleed trailer was filled over capacity. 150 gallons of deisel were spilled on the ground and 150 gallons in the secondary containment. Operator closed valve fully, notified the lead operator and shut down a near-by portable heater.	Free standing liquid in the contaiment and on the pad were recovered with a vac truck. The contaminated snow and gravel on the pad was removed using heavy equipment and hand tools.	Diesel recovered in vac truck was taken to GC-2 for recycle. The contaminated snow will be melted down and recycled. The contaminated gravel was taken to Pad-3.	
11/4/02	2002-IR-356360	Drill Site 06, Drill Site 6 Manifold Building Hydraulic Skid	Hydraulic Fluid	300.00	At approximately 1330 hour on the Drill site Operator was making rounds at Drill Site 6 and discovered a hydraulic spill in the process area. The operaotr shut down the hydraulic and called for assistance. The leak was caused by a broken 1/2"piping nipple in the discharge section of the pump. Spill cleanup was begun and a call was placed to get help called out for repairs. Final cleanup was completed during the following day shift.	Recovered material with a drum vacuum and placed back into system for reuse.	The free oil was recycled back into the production stream. The oily absorb and other material was bagged and disposed of at the oily waste dumpster.	
2/6/96	1996-IR-91242	GC-3 PWX Section	Crude Oil	299.97	At beginning of shift 18:00 hrs. sk.7 board operator started building tank levels in anticipation of up coming work to be performed that night, when the tank level was at or about 36 feet (overflow occurs at 39' 6") he began smelling a produced water odor in skid 7. He then confirmed his control board and saw that everything looked normal, but requested that the rover make a round to verify this. The rover found T-8512 overflowing thru the overflow vent and requested that the skid 7 operator lower the tank level, which he did stopping the overflow (300 gallons Crude; 150 gallons produced water). Skid 7 operator never saw overflow alarm.		The exempt Class II material will be taken to Pad 3. The fluids were taken to Arco Pad 3.	An Operator was filling tank 8512 at GC 3 when the tank overflowed, spilling approx. 450 gallons of crude & produced water into the surrounding lined area and onto some structures in the area. The overflow alarm did not sound and the operator had no indi

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/5/97	1997-IR-89163	Well Pad K	Crude Oil	299.97	Well Pad operator reported oil in the well cellar on K-13. Approximately 10 gallons of crude was floating on water. Cause is unknown. Oil was skimmed from the water with a power vac and all contaminants contained in the cellar box. Upon a followup visit, an additional estimated 290 gallons was found in the well cellar. It is suspected that the production tubing has failed and that oil is coming up the annulus.		The exempt material is being recycled.	A pad operator reported oil in the well cellar at K-13. Upon investigation, approximately 10 gallons of crude oil was found floating on water in the cellar. The cause was unknown. The crude was removed. However, upon a followup visit, an additional es
4/18/99	1999-IR-93767	GC-3 Pad	Produced Water	299.97	Sk. 4A piperack line rupture. Investigation underway.	Loaders, Bobcat, and hand tools were used to clean up affected snow. High Pressure washer was used to clean contaminated piping. Further gravel removed on 6/12/99 at GC-3-1 location.	RCRA-exempt material was taken to ARCO Pad 3.	Spill pictures on file at Lead Spill Tech office. Final confirmation sampling conducted 6/12/99 indicates cleanup complete below target cleanup levels for DRO and RRO (sample location GC-3-1). See attached figures and data.
4/7/96	1996-IR-90741	Well Pad S	Diesel	299.97	A cornice of snow and ice broke off the flat roof section and fell straight down. This snow/ice fall struck and partially broke a 1/2" pipe and a resulted in Diesel fuel spilling onto the snow and ice covered pad. A 20' x 20' area on the pad was affected. The contaminated snow and ice was picked up with a loader bucket and shovels and put into slop tanks. The contaminated gravel and snow were disposed of properly by the Environmental Dept. The material was taken to T Pad and placed in a lined pit for temporary storage.			Ice and snow slid off the roof from the mechanic shop shearing the quick connect fitting for the diesel fuel tank on the side of the shop.
8/13/95	1995-IR-98521	West Dock	Diesel	299.97	Observed contaminated gravel contained in middle of gravel road while excavating gravel road beneath causeway bridge.	Used loader and dump truck to transport contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 7/27/95 to be held for future remediation.		Observed contaminated gravel contained in middle of gravel road while excavating gravel road beneath causeway bridge.
7/9/93	1993-IR-98000	Well Pad, Roads	Diesel	299.97	Spill observed while grading pad. Old spill covering 50'x50' area.	Metis/Cleanup		Spill observed while grading pad. Old spill covering 50'x50' area.
6/6/07	2007-IR-2292882	Central Gas Facility, CGF Skid 4924, CGF/CCP	Hydraulic Fluid	294.00	While performing his first rounds on night shift, an operator discovered hydraulic oil spraying into skid 4924 from the 23F224 hydraulic actuator on the second stage suction valve. The spill was reported by the board man and SRT was called at 18:50. Source was controlled and inital investigation revealed the tubing had cracked and failed on the supply line to the suction filter on the actuator. Spill was primarily contained to the skid but hydraulic oil was released into skid 4924 soffit and to the pad. Operations placed containment around spill location on pad and awaited assessment from SRT. SRT arrived around 20:00.	Super Sucker, Vac truck were used to remove contaminated grave, and snow melt water. Inside of Mod. will be consist of wipeing down piping, floor's, and wall's.	Gravel was taken to T pad for disposal, and snow melt was brought to Pad 3 for disposal.	Agencies were notified of release. Note: this is the Final report. Containment was built under Mod. and will be monitored.
2/25/03	2003-IR-448948	Drill Site 17, DS 17 # 7	Seawater	294.00	Upright tank developed a leak in the wall of the tank.	Loader, and Dump box were used to renove contaminated matreial from site.	Matreail was brought to T Pad for disposal.	The make up of the water is 1% KCL. Notifications were made to all agencies.
11/22/96	1996-IR-98310	Drill Site 01	Crude Oil	293.97	"While bringing well on line, a 3/8 stainless steel sensing line parted in the Drill Site manifold module."	"A vac truck was used to pick up liquids and a guzzler was used to pick up gravel. A pressure washer was used to clean remaining material in the module, with a vac truck picking up the fluids. - Crude oil was taken to Pad 10 on 11/23/96 for recycle at a		"While bringing well on line, a 3/8 stainless steel sensing line parted in the Drill Site manifold module."
10/2/76	1976-IR-95989	Drill Site 01, Not specified	Crude Oil	293.97	Live flow line leak	Not specified	Not specified	Not specified
6/25/77	1977-IR-95998	COTU Facility, Not specified	Crude Oil	293.97	Oil spray from gas	Not specified	Not specified	Not specified
4/3/89	1989-IR-96942	Seawater Injection Plant, Not specified	Seawater	293.97	Tanker overfilled	Not specified	Not specified	Not specified
6/22/94	1994-IR-98219	Central Compressor Plant	Lube Oil	281.97	Tubing fitting on the turbine system failed allowing material to pump out onto the module floor. 60 gallons reached the gravel pad below the module.	A supersucker was used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 7/6/94 to be held for future remediation.		Tubing fitting on the turbine system failed allowing material to pump out onto the module floor. 60 gallons reached the gravel pad below the module.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/17/05	2005-IR-1506706	GC-1, GC1 Skid 404, GC1	MEG	280.00	Due to low level in buffer fluid reservior, plant operator opened the manual buffer fluid filling valve to increase fluid level. When correct level is achieved, operator manually closes valve. While filling reservior, the operator generally makes his rounds and safety checks in this module. Upon return to the filling operation, the operator noticed MEG fluid on the floor due to over filling the reservior. The engineered high level switch tripped, sending a close signal to the actuated inlet valve. The valve received the signal to close, but did not close all the way. This caused the reservior to over flow onto the module floor.	The free standing liquids inside skid 404 were removed using an air operated vaccum unit. Residual material on floor was then wiped up using absorbent pads. Floor was mopped for final cleaning with fresh water.	The free standing liquids were placed in the facility sump for Class II disposal. The contaminated absorbent material has been taken to an approved NSB oily waste dumpster.	
2/1/92	1992-IR-97730	Flow Station 3	Diesel	279.97	Leak from a diesel pump into the diked tank storage area.	YES -		Leak from a diesel pump into the diked tank storage area.
1/9/05	2005-IR-1201797	Flow Station 1, Flow Station One, Module 4948, 15151/15152 Dirty Water Pump discharge line., FS1/SIP/STP	Produced Water	275.00	A LEAK DEVELOPED ON THE DISCHARGE PIPING OF 15151/15152 DIRTY WATER PUMPS CAUSING A RELEASE OF APPROXIMATELY 275 GALLONS IN THE MODULE.	Squeegeed water to the module sump.	Material reclaimed in facility sump for re-use in process facility.	Volume estimation made from release area dimensions of approximately 45 ft x 20 ft x 0.5 inches.
2/13/05	2005-IR-1243415	Drill Site 11, DS11-7 & 8 SWI flow line., FS2/COTU	Seawater	275.00	Discovered ice formation coming from DS 11-7 & 8 flow line. Upon investigation, found sea water dripping from line.	Area was flushed with copious amounts of fresh water	Recovered material will go to T-pad for disposal	Note: this is a final report.
11/7/04	2004-IR-1118213	Seawater Injection Plant, SIP Module 49101 on the floor and out the door to gravel pad., FS1/SIP/STP	Seawater	275.00	The sump pump discharge gauge sensing line 3/4 inch nipple failed due to internal corrosion on the discharge piping for sump pump 31-15111.	Material inside module was returned to module sump and recycled. The contaminated area on gravel pad was scratched up with a loader and put into a dump box for disposal. The area under the module was flushed with warm water and recovered witha vac truck.	Seawater contained in the module was recycled back in the system. The contaminated snow, gravel, and recovered fluids from flushing was taken to Pad 3 for disposal.	
10/7/02	2002-IR-332795	Drill Site 16, DS 16 # 13	Diesel	273.00	A VECO Vac truck driver was dispatched to drill site 16 to off load 100 barrels of 40-degree fresh water into a VE (tiger tank) containing diesel and NGL’s. The driver had off loaded all the fresh water, and when the line was empty some air was introduced into the VE tank. At that point the contents of the tank boiled over rapidly releasing a large volume of fluid to the containment dike and surrounding gravel pad. The incident was reported immediately and a full investigation is ongoing. There were no injuries associated with this event.	60 Degree water was used to melt contaminated snow and slush that was caught in the containment so it could be pumped to another tank (tank no. 2). The content of tank no. 2 was then pumped into common line 16-29 for hydrocarbon recycling at Flow Station 2. Approximately 400 barrels of fluids were pumped from tank no. 2 into common line 16-29. After the tank and containment were moved loader, trimmer and hand tools were used to remove contaminated material.	Fluids put back into process for benificial reuse, 158 cubic yards of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 10/7/02.
8/13/96	1996-IR-89588	GC-1 Pad	Crude Oil	268.97	Crude and Produced water from the dirty water transfer pumps in Skid 326 spilled when a seal blew which was cased by resevoir sand coming from well D-18. Well was shut in; seal repaired. A vac truck was used to clean up the free fluid and sorbents were used to wipe up the remaining material. The exempt product was reused/recycled back into the system at the facility. The used sorbents were placed int he NSB Oily Waste Dumpster for future incinderation. There was no environmental impast as all materials were contained within the skid.		The exempt product was reused/recycled back into the system at GC 1. The used sorbents were placed in a NSB Oily Waste Dumpster for future incineration.	A seal on the out board side of booster pump #P01-8007A for the dirty water system blew, causing fluid to leak into the skid.
11/7/03	2003-IR-671234	Well Pad A, Well A-24 on Pad A	Seawater	252.00	Cuttings Tank on Nabors 4ES overflowed. Seawater spilled on Pad A. Estimate 6 Bbls of seawater spilled on the pad. No material released off pad.	The free-standing liquids on the pad were immediately removed with pumps and a vac truck by the 4ES Rig Crew. The material was placed in the mud tanks to be reused and some of the material was placed in the mud cuttings tank for later disposal. A Bobcat and trimmer were used to remove contaminated ice and gravel.	Liquids will be reused in mud tanks and remaining material was taken to Grind and Inject Facility for disposal.	Clean up and disposal plan was faxed to ADEC for approval on 11/7/03.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/11/04	2004-IR-741111	GC-1, West side of Skid 450, GC1	Propylene Glycol	252.00	The water wheel Project team is pigging the old SWI line from STP to WSW prior to a change of service. The line will soon be used for three phase liquid production from PT Mac 2 to GC-1. Four weeks ago a large volume of pigging solids entered the Spicer tank (following a previously stuck pig) and created a large dust cloud. To prevent a reoccurrance, Projects placed 1500 gallons (35.7 bbls) of the "environmentally friendly" propylene glycol in the tank for dust control. Several days later, pigging was suspended for the holidays, and then was resumed again three days ago. It is unclear whether the glycol was "blown" out of the tank 4 weeks ago, or in the last several days, but given the sheen on the side of tank it would appear most likely that the event occurred within the last several days. In any event, the weather has been blowing snow with high winds during virtually the entire time and the containment area was covered with drifted snow. It was also discovered that the secondary containment dike had collapsed (or was improperly constructed) in one small area and that the dike breach was covered with snow. The glycol was driven from the tank with pigging return air (splashed against the visqueen cover, then running down the side of the tank) and into the secondary containment dike, where it then leaked onto the gravel pad by Skid 450. It was initially reported that 28 bbls of glycol had spilled. When ACS asked the vac truck driver how much he had sucked out, he replied "2 bbls". Unfortunately, the ACS personnel thought the driver meant that was how much liquid had been sucked out of the Spicer tank to empty it - while in fact, the vac truck driver never did suck the tank out, only contaminated snow and glycol in the containment area and just outside of it where the dike was breached. This key miscommunication is what confused the situation for a considerable period of time. Accordingly, the initial spill calculation was derived by subtracting both the estimated amount of glycol entrained in the pigging solids in the tank (estimated at 5 bbls) and the liquid removed from the tank (approx 2 bbls per the vac truck driver) from the original fill volume of 35 bbls. This came to 28 bbls missing. Environmental immediately reported this as the potential spill volume to the State of Alaska. Inspection of the spill area led numerous people to question the volume of the spill - it did not look like a large spill. Further investigation led to the removal of the visqueen so the tank could be strapped and inspected. It was obvious at that point that the spill was an order of magnitude smaller since the glycol appeared to all be in the tank. The strap confirmed that 1762 gallons were in the tank and taking into account the solids content it was calculated that 252 gallons had splashed out of the tank with 84 gallons in containment and 168 gallons leaking onto the pad.	Upon completion of the pigging operations the containment dyke was demobed and the tanks were removed. The contaminated snow from inside the containment was stockpiled for transport to an approved disposal area. The affected gravel area under the containment dyke was trimmed using ACS' bobcat loader. The contaminated gravel was stockpiled with the affected snow.	The fluids have been disposed of in a class I injection well. The solids (snow/gravel) have been transported to the T-pad permitted storage pit and will be treated at a later date.	Initial notification of this release occured on 1/11/04.
9/28/94	1994-IR-98392	Flow Station 3	Seawater	251.97	"The """"O"""" ring gasket on a pig launcher door failed and caused material to leak onto module floor. All material was contained inside the module."	A barrel vacuum was used to pick up the spilled material. - Material was returned to module sump to be rerouted into process system.		"The """"O"""" ring gasket on a pig launcher door failed and caused material to leak onto module floor. All material was contained inside the module."
4/14/92	1992-IR-97685	Drill Site 02	Crude Oil	251.97	Reducer failed during corrosion inhibitor treatment causing crude to spray the area.	Metis/Cleanup		Reducer failed during corrosion inhibitor treatment causing crude to spray the area.
3/1/99	1999-IR-100926	Drill Site L5	MEG	251.97	Heater coil on a H&V unit sprung a leak.	Vacuumed up glycol and wiped up rest. All contained & disposed of. Pad 3 w/liquid & absorb went in oily waste bags then to line oily waste dumpster.		Heater coil on a H&V unit sprung a leak.
10/15/89	1989-IR-96789	Drill Site 16, Not specified	Seawater	251.97	Released through open valve on tank while transferring material.	Not specified	Not specified	Not specified
3/19/76	1976-IR-95993	COTU Facility, Not specified	Diesel	251.97	Overfilled tank	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/8/04	2004-IR-932760	GC-2 LPS Section, GC2/SAT	Produced Water	250.00	During normal mid afternoon rounds at approximately 3:15 PM the area operator checked ¿C¿ Slug Catcher water quality using the closed sight glass system. At approximately 3:35 PM 250 gallons of produced water was discovered on the skid floor. The area operator notified the facility lead operator of the situation. The source of the produced water was coming from the module sump. The area operator started the sump pump and then through further investigation found the produce water sample sink valve to be cracked open. All liquid was contained with-in the Skid and 5700 was called to report the spill in accordance with BP policies and procedures. During the investigation the ¼ turn ball valve was found to have loose packing that allows the valve handle to turn easily. The valve was most likely inadvertently bumped open allowing the skids sump to overfill. The sump high-level alarm did not activate due to a damaged float rod and corroded micro switch contacts.	Material was sucked up with a vac truck and the module floor was then cleaned by hand.	Material was recycled back into the facility and oily rags and ppe generated from the clean up were properly disposed of.	A work order to address the High level alarm on the float switches was written.Instrument Techs repaired the float tube and moved the alarm wires to spare contacts on the float switch. The facility has completed the function test and it has been verified back to PCC as working per design. The Facility also created a 6 month PM (PM request# 1983) starting 9/10/2004 for verifying the High Level shutdown switch operates as designed. They have also relocated the 1/4 turn valve so that in the future, it is unlikely to be bumped open by the operator. All of this work has been completed.
9/2/04	2004-IR-1041080	COTU Facility, COTU sewage holding tank, FS2/COTU	Sewage	250.00	plumber working on clogged sink drain eventually went to sewage holding tank to work on snaking sink line backwards when he dicovered ground water to be contaminated with sewage running from a hole in the side of the outlet check valve.	Contaminated water was vacuumed up with a vac truck and the area was limed.	The contaminated fluids went to pad-3 for disposal.	The exact quantity of gray water is unknown. It was mixed with the storm water with a total quantity about 250 gallons. It was all considered to now be gray water and it was all removed.
10/4/04	2004-IR-1077135	Main Construction Camp (MCC), Main Construction Camp laundry and kitchen waste water lift station, Non Process Area	Sewage	250.00	AT APPROXIMATELY 12:20 PM WE HAD A GRAY WATER SPILL OUTSIDE OF THE KITCHEN/LAUNDRY LIFT STATION. THE CHECK VALVE ABOVE THE #1 PUMP FAILED. THE SHAFT THAT HOLDS THE FLAPPER ON THE CHECK VALVE AND EXTERNAL WEIGHTED HANDLE SHEARED OFF RESULTING IN WATER COMING OUT OF THE HOLE WHERE THE SHAFT WAS.	Vac truck sucked all standing fluids up. Hand tools were used to remove some snow, and gravel.	Fluids, snow and gravel went to Pad 3 for disposal.	NOTE: This fluid was Gray water from the Laundry facility, not sewage. Notifications were made to agencies.
10/24/06	2006-IR-2025168	GC-2, GC2 pad. 24" portable pig launcher installed on the GHX (bypass GC2 oil transit line) pipeline., GC2/SAT	Methanol	250.00	The 24" portable pig launcher currently inplace on the the GC2 GHX line (bypass oil transit line) began leaking after issolation valve servicing. This launcher was being prep'ed for removal and relocation. The operator and contract work crew had tried to issolate and drain the launcher earlier in the day. It was idendified that the launcher system issolation valve was not holding and needed to be serviced. The contract crew had disturbed a 3" blind on a unused connection on the launcher barrel with the intentions of using that location as a high point vent and stinger location for draining. The operations team lead identified that the removal of this flange was not appropriate at that time and had the contractor reinstall all fasteners. This flange began to leak when the launcher refilled post issolaton valve servicing. Crude oil and MEOH leaked onto the GC2 pad and began to run off the pad into the containment area between the GC2 pad and the H pad access road.	The freestanding liquids on the pad, tundra and under the ice on the tundra pond were recovered using a vac truck. The gravel was first washed with water and will be removed using heavy equipment and hand tools. The material on top of and under the ice will be removed with a warm water flush. The pig launcher was wiped down using absorbent pads.	Freestanding liquids and wash water were taken to Pad-3 for disposal. Contaminated gravel was taken to Grind & Inject facility.Absorbent material will be taken to an approved NSB oily waste dumpster.	The clean up has been complete for this spill and sample results have come back below clean up standards.
11/14/05	2005-IR-1617925	GC-3 LPS Section, GC-3 Skid 451 Sample Sink, GC3	Produced Water	250.00	Personnel were in the process of sampling produced water quality off of B-Slugcatcher after identifying concerns of water qualilty. Produced water was routed to the sample sink in skid 451 for purpose of monitoring water quality to skim tank. Personnel attempted to isolate drain from Slugcatcher to sample sink by closing isolation valves on sample sink. Due to a failed check valve on the down stream side of level control valve, water continued to flow in the sample sink which was had a plugged drain which normally goes to the sump. Several hours later while making rounds in skid 451, operator identified produced on skid floor. Operator confirmed flow thru the check valve, and closed isolation valve in order to mitigate further flow. Op's LT and Operations sniffed for H2S and Benzene prior to any clean up activity. Benzene level was at .2ppm / H2S was Oppm. Op's LT called Env. Advisor to report immediately, and Env. Tech estimated volmue at 150 gal's. All notifications were immediately implemented and clean up of produced water in skid 451 commenced. Melba Pinnow approve this IR on the behalf of John Kurz after verifing this with Anchorage HSE group.	The free standing liquid was recovered using air operated drum vaccum systems. The risidual oilly film was then wiped up using cleaning solution and absorbent pads.	Produced water was placed in facility sump system. Absorbent material and rags have been taken to an approved NSB oily waste dumpster.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/25/01	2001-IR-120850	Flow Station 3, Flow Station 3 1806 T/C	Fresh Water	250.00	On September 23rd cleaning started on the regenerator piping on Artificial Lift machine 1806. The operations consisted of using high-pressure firewater to wash the core sections of regenerator. 1806 T/C is the only turbine on the North Slope that is equipped with a Garrett 4 pack regenerator and this was the first time for this regenerator piping to be cleaned. On September 25th water was noticed running out of the lower section on one of the regenerator seams that was outside the collection tank dike. Approximately 50 gallons of the rinse water made it to the pad before a dike could be placed under the area were the rinse water was running to the ground. Other 200 gallons of rinse water was collect in the temporary dike. Sample of the water was pulled to determine the correct disposal method of the rinse water that showed 1.03 PPM of cadmium that classified this as a reportable spill. This spill was not reported correctly to the agencies due to the fact the cadmium was unknown. Agencies were notified immediately after the cadmium results were detected.	Recovered contaminated material with a Bobcat loader and placed into drums for retesting and possible disposal as hazardous waste. Test results showed that gravel passed EPA requirements for concerned element.	2 cu. yrds of gravel taken to Pad 3 for disposal.	
10/30/98	1998-IR-90138	Well Pad Z	Crude Oil	249.97	An explosion occurred in the Z Pad production modules and the modules caught fire. An unknown amount of oil was released during the explosion. The response priority at this time continues to be safety of personnel and source control. No spill material has left the pad including runoff from fire fighting operations.		Arco Pad 3 for Gravel and Snow. Oily sorbents went in oily waste dumpster.	An explosion occurred in the Z Pad production modules and the modules caught fire (see initial and first interim reports). No spill material has left the pad including runoff from fire fighting operations.
2/13/95	1995-IR-98561		Diesel	249.97	"A tanker rolled on its side while traveling in Deadhorse. Phase 1 conditions existed when travel commenced, but turned to Phase 3 before the tanker reached its destination."	Veco crews worked on cleaning up this spill for several months. Diesel-contaminated snow/ice was picked up and stored in cuttings boxes until all of it was collected. - Diesel-contaminated snow/ice was melted. The resulting fluid (approx 6-8 BBL) will		"A tanker rolled on its side while traveling in Deadhorse. Phase 1 conditions existed when travel commenced, but turned to Phase 3 before the tanker reached its destination."
5/31/92	1992-IR-88147	Well Pad R	Crude Oil	249.97	R-2 PWI well blew a grease nipple in skid R-54. The well was shut in, bled down and repairs made. The well was brought back on with the two 1" drain valves left open. The 3" drain header block valve to the slop oil tank leaked and pressured up the slop oil tank causing the PSV's to open (650 psi) discharging oil and water on to the gravel pad.		Pooled oil returned to GC-1 ullage tank. Contaminated gravel and snow taken to Arco Pad 3 pit.	Over pressurization of slop oil tank inside module allowed crude oil to vent from building onto pad.
1/9/77	1977-IR-95995	Main Construction Camp (MCC), Not specified	Diesel	249.97	Storage tank leak	Not specified	Not specified	Not specified
5/29/83	1983-IR-96111	Drill Site 02, Not specified	Diesel	249.97	Valve pre-opened	Not specified	Not specified	Not specified
1/1/94	1994-IR-86419	Well Pad E	Diesel	249.97	A Peak fueler pulled up behind a dozer to fuel it. The dozer operator did not see the fuel truck and backed into it damaging the lines inside the valve compartment. Additional fluids were lost because the emergency shut off valve was frozen. Approximately 250 gallons of Diesel was spilled covering a 1700 square foot area.		The contaminated ice and snow have all been cleaned up and taken to Arco Pad 3.	
10/22/04	2004-IR-1098964	Drill Site 12, DRILLSITE 12, WELL 12-06 ABOUT 30 FEET BEHIND WELLHOUSE IN THE PIT., FS1/SIP/STP	Corrosion Inhibitor	240.00	FOUND A 1/4 INCH CHEMICAL INJECTION LINE LEAKING OUTSIDE THE WELLHOUSE IN THE PIT AREA. THIS LINE STRAPS ONTO THE FLOWLINE FOR CORROSION INHIBITION. VX7830 NALCO. ISOLATED THE INJECTION LINE AND NOTIFIED 5700 & SRT. THE TUBING HAD A SMALL HOLE WORN INTO IT FROM VIBRATION.	Contaminated snow and ice was recovered with hand tools and snow machines. The surface area on top of the ice was flushed with warm water. A vac truck was used to recover the flushing water and the water below the ice surface.	Contaminated snow, ice and water was taken to Pad - 3 for disposal.	Immediate notifications were made. The volume reported was an estimation based on calculations made from strapping the chemical tank and daily usage.
7/3/90	1990-IR-97031	Drill Site Maintenance	Diesel	239.97	Sight glass on Tioga heater came loose.	YES -		Sight glass on Tioga heater came loose.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/14/05	2005-IR-1281255	Well Pad S, SE corner of S Pad, GC2/SAT	Diesel	228.00	A diesel fuel leak was discovered in the generator house of the Kuskokwim rig camp located on S pad. The fuel was leaking from the belly pan fuel tank on the number 2 gen set which was shut down at the time. It was found that the return line valve on the #2 engine was leaking and allowed fuel to be pumped into the belly pan tank from the running engine. The fuel flowed from the fuel tank onto the floor of the SDU plant. 30 gallons of fuel was recovered from the floor, an additional 15 gallons leaked into the secondary containment of which 2 gallons found it's way through the liner to the frozen pad. Total released volume 45 gallons. The recovered fuel and contaminated snow was disposed of as per ACS instructions.	Recovered snow and ice with hand tools, liquids were recovered with small pump and residual was recovered with absorbents.	Material will be beneficially reused or taken to hydrocarbon recycle.	Initial volume estimation reported on 3/15/05 was calculated by Rig crew based on supply tank levels, engine flow rate and amount of time engine was operated. After melting down snow and diesel, spill technicians did a volume calculation based on the depth of fuel on water surface. This new volume estimation after material was totally melted down and measured on 3/21/05 was 183-gallons in addition to the 45-gallons initially called in.
8/31/05	2005-IR-1524914	Well Pad S, Cellar box inside of wellhouse on well S-14, GC2/SAT	Diesel	225.00	A pump truck was on location doing a wellbore circ out and a MIT-OA to 2000 PSI. After they had Circulated the wellbore clean they hooked up to the Outer Annulus (OA) and began pumping into the annulus to perform a MIT-OA to 2000 PSI. The crew had 5 bbl's pumped away and 200 PSI on the annulus when they were performing a walk around of the job site and discovered that the cellar in the wellhouse had a large amount of black fluid and it was coming out of the conductor pipe thru the flutes of the outer casing hanger. The helper immediatly notified the pump operator on the radio and pumping was stopped. Once the pump was shut down, the leak stopped and the pressure on the annulus dropped back to zero. The well was secured, SRT and the project PE was notified immediately.	A super sucker was used to remove contaminated material from cellar box.	The contaminated material was taken to DS-4 Grind and inject facility.	A rig is moving onto the Well for workover Friday 09-02-05. Verbal notification was made on 08-31-05 by Bill Fletcher at approximately 8:20
3/8/97	1997-IR-89207	Well Pad E	Crude Oil	219.98	On 2/17/97 the E-15 well slot drain valve began leaking through thereby pressuring the drain header to 700 psig. A work request was written and a work order was processed on 2/19/97. On 3/5/97 the globe valve (knocker valve) which isolates the drain header from the slop oil tank V-E-7500 began leaking through at a very small rate. This was identified by rising pressure in the slop oil tank. The priority was consequently raised on the E-15 valve replacement and the job was planned for 3/8/97. The E-pad operators routinely vented the slop oil tank on their normal round for these two days. The highest pressure seen on the tank was 300 psi. The PSV's are set to relieve at 650 psi. No liquid increase was observed in the slop oil tank during this time. At 03:00 hrs. on the morning of 3/8/97, the night shift operator cycled the well slot and 3" knocker valve, then closed both of these valves attempting to get them to seal. He opened the vent to atmosphere valves to prevent the slop oil tank PSV's from lifting at their setpoint of 650 psig. He then left the pad to attend to his other duties and did not return for the duration of his shift. Sometime after these valves were cycled the knocker valve apparently began to leak into the slop oil tank. The tank was filled in excess of its capability and overflowed through the open vent valves. The open vent valves allowed full differential (~700 psi to zero) to accelerate the leak. The night operator made relief with day man and explained what he had done. The day man questioned those actions. On returning to the BOC, the off shift night man checked out a pool vehicle and went back out to E pad to close the vents, where he discovered oil spilled from the vent around 0645. The supervisor and appropriate response personnel were notified. E-15 was not shut in due to the leaking knocker valve, because it was felt by the Operations Supervisor and pad operators that the leak to the slop oil tank was minimal and with the downstream block valves on the vent line, could be managed until repairs were made.		Fluids recovered from the snow melter were taken to GC-2 for recycling. Crude contaminated gravel will be remediated at a later time.	A well slot valve isolating process piping from a drain header failed. Before repair work could be initiated, a knocker valve, connecting the drain to a vented vessel also failed which allowed crude to fill the tank and flow from the vents. A strong win
11/18/96	1996-IR-89702	Well Pad W	Produced Water	212.48	Trico employees were performing an acid flowback of well #35 at W-Pad. The Trico crew was transferring fluids to a 500 barrel tiger tank when the tank was overflowed. The Trico operator was monitoring the volume of fluids being transferred by calculating the average barrels of fluids per hour and was also strapping the tank each hour. The Trico unit is also equipped with a direct reading display from a turbine meter to monitor the volume of fluids being transferred to the tiger tank. The Trico opertor's calculations were not correct; however, the display from the turbine meter was showing 505 barrels of fluid had been flowed into the tiger tank. The crew was about to strap the tank level again when they noticed that the tank was overflowing. This spill was the result of human error.		The exempt clean-up material was taken to Pad 3.	Trico was performing an acid flowback job on W-35 when they overfilled the Tiger tank they were using, spilling approximately 250 gallons of produced water with 15% crude content onto the pad.
5/9/04	2004-IR-896062	Well Pad M, Outside the M-Pad 54 skid., GC2/SAT	Crude Oil	210.00	Oil spilled from the M-Pad slop oil tank vent onto the ground, the side of the building and adjacent pipelines. M-Pad was shut-in at the time for maintenance work.	A vac truck was used to clean up approximately 10 gallons of standing liquid, shovels were used to remove contaminated snow. Rags and cleaner have been used to wipe pipes. A super sucker was used to remove contaminated snow.	Material has been taken to Drill site 4 Grind and inject facility.Sorbents and rags have been taken to an approved NSB oily waste dumpster.	During clean up and snow removal under pipes 2 small areas of pooled oil were discovered Both areas were approximately 150 square feet. The estimated volume was increased based upon the pooled oil of approximately 2 barrels.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/2/05	2005-IR-1603572	Well Pad V, V-214i, GC2/SAT	Drilling Mud	210.00	Mud Cleaner Feed Line Connection Parted and Released 5 bbls of Mud into #1 Pump Room.	Used Vac Truck, Rig Vacuum, Trash Pump and Mops. Transferred Material to Slop Tank.	Vac'd Up and Transferred to Slop Tank to be reused during drilling operations.	Verbal notification was given on 11/02/05 by the GPB WOA environmental advisor at approximately 1330.
5/5/96	1996-IR-90950	Well Pad B	Drilling Mud	209.98	The drilling crew had been tripping drill pipe into the hole. The driller stopped the trip to fill the drill pipe, prior to cutting the drilling line. A 2" high pressure hose and a head pin connection were used to fill the pipe through the cement line. The 4" standpipe valve was not physically checked for a closed position. The driller started filling the drill pipe with mud and the open standpipe valve allowed mud to travel up the standpipe and down the kelly. This mud flowed out the bottom of the rat hole, and into the rig cellar, overflowing the cellar and onto the matting boards. Some mud went onto the pad before the pump was shut down. The rig supervisor was immediately notified and the crew commenced cleanup operations. BP Environ. Tech. was notified and a spill investigation and report were completed. The class 2 contaminated snow was placed in the rig's snow melter. It will be melted and the fluids will be taken to the CC2-A Ball Mill for injection. There was no environmental impact as all mud was contained on the pad.		The class II contaminated snow was placed in the Rig's snow melter. It will be melted and the resulting fluids will be taken to the CC-2A Ball Mill for injection.	While tripping in the hole, the driller stopped to fill the pipe with mud. The stand pipe valve was left open on the rig floor and caused the well cellar to fill with drilling mud and over flow onto the well pad. Approx. 210 gal. of drilling spilled onto
3/1/94	1994-IR-88645	Drill Site 11	Seawater	209.98	Derrickhand checked tiger tank for fluid level. He thought the tank was empty and told vacuum truck druver to fill the tank. Driver began to fill tank and went back to truck to get face mask. Upon his return the tiger tank was overflowing. Neither men filled out a fluid transfer permit. (see attachment) The spill was approx. 5 bbls. of sea water.		Snow and ice was put into slop tank for reuse.	Tiger tank was being filled. Level was thought to have been checked. Steam coming off of the fluid made checking difficult. Vac. truck started to fill tank that was already full and overflowed the tank.
2/3/95	1995-IR-86050	Well Pad S	Crude Oil	209.98	A section of piping looping between header 42 and 44 tying into LDF ruptured due to corrosion damage. The maximum pressure seen on the pipe at the time of rupture was approx. 1300 PSI. The piping was classified as 1500 ANSI which should have a working pressure of 3600 PSI. Rupture caused hydrocarbon release within the skid resulting in high gas alarms and a subsequent halon dump.		The sorbents were placed in a N S Borough oily waste dumpster for incineration. Update 3/12/95 the oil and water mixture was recovered with a vac truck and taken to GC2 to be recycled.	Corrosion/erosion caused a rupture in the tie line from S-44 to S-42, going to the LDF, inside Skid 57. This caused approx. 210 gallons of crude to spray through the inside of the Skid.
6/7/94	1994-IR-88995	Well Pad D	Seawater	209.98	The valve to the "day tank" started to leak by during the job, causing the tank to overflow. This valve was found to be slightly open after the spill was noticed. Since the pump had been in operation for some time, it is believed that the vibration of the handle may have gradually let the valve start to leak as we were pumping at a "high" rate to kill the well before running in the hole with coil tubing.		Affected gravel taken to T-Pad oily waste pit.	During down hole pumping the valve for the auxiliary resevoir on a Nowcam coil tubing rig, vibrated open slightly causing the resevoir to overfill and spill out the top vent.
6/18/92	1992-IR-91225	BOC	Drilling Mud	209.98	Valve inadvertantly left open at Ball Mill while processing oil-based muds allowing material to spill onto pad. The contaminated muds were scraped up with a bucket loader and materials were taken to Arco Pad 3 lined pit.		Contaminated materials taken to Arco Pad 3 lined pit.	Valve inadvertantly left open at Ball Mill while processing oil-based muds, allowing material to spill onto pad.
6/17/92	1992-IR-91202	BOC	Drilling Mud	209.98	Valve inadvertantly left open on ball Mill		Contaminated materials taken to Arco Pad 3 lined pit.	Valve inadvertantly left open at Ball Mill while processing oil-based muds, allowing material to spill onto pad.
6/18/93	1993-IR-97974	J Pad	Methanol	209.98	"While unloading line truck, valves were set up to pump in wrong direction-tank overflowed."	Metis/Cleanup		"While unloading line truck, valves were set up to pump in wrong direction-tank overflowed."
5/7/95	1995-IR-98490	Drill Site 02	Crude Oil	209.98	"Tiger tank was overfilled. Operator was relying on gauge, which gave faulty reading."	"Loader was used to berm the area to keep liquid on the pad, and super sucker was used to recover standing liquid. Loader and scratcher were used to pick up contaminated snow and gravel. Contaminated meltwater will continue to be vacced out of bermed ar		"Tiger tank was overfilled. Operator was relying on gauge, which gave faulty reading."
12/9/98	1998-IR-98768	Flow Station 1	Produced Water	209.98	Corrosion pit in water transfer line from the Seawater injection plant to FS1.	Standing water was sucked up with a vac truck and recycled at FS1. Spill was contained in the cable tray due to grade and ice block. - Liquids were picked up with vac truck and recycled at FS1 Slop Oil Tank on 12/10/98.		Corrosion pit in water transfer line from the Seawater injection plant to FS1.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/9/98	1998-IR-98768	Flow Station 1	Seawater	209.98	Corrosion pit in water transfer line from the Seawater injection plant to FS1.	Standing water was sucked up with a vac truck and recycled at FS1. Spill was contained in the cable tray due to grade and ice block. - Liquids were picked up with vac truck and recycled at FS1 Slop Oil Tank on 12/10/98.		Corrosion pit in water transfer line from the Seawater injection plant to FS1.
3/31/90	1990-IR-97267	Drill Site 14	Seawater	209.98	Inadvertently left valve open material discharged when unhooking camlock.	YES -		Inadvertently left valve open material discharged when unhooking camlock.
2/15/90	1990-IR-96340	Drill Site 15	Produced Water	209.98	Union came loose from a hardline while taking returns from the well.	YES -		Union came loose from a hardline while taking returns from the well.
8/24/92	1992-IR-97767	Flow Station 2	Seawater	209.98	Overflow of sump due to excess discharge from drain system.	Metis/Cleanup		Overflow of sump due to excess discharge from drain system.
9/30/90	1990-IR-97121	Drill Site 06	Crude Oil	209.98	"Tank containing H2O & crude was heated, contents expanded"	YES -		"Tank containing H2O & crude was heated, contents expanded"
3/17/90	1990-IR-97253	Drill Site 17	Seawater	209.98	Overflowed the mudbox after flooding shaker on rig.	YES -		Overflowed the mudbox after flooding shaker on rig.
2/16/91	1991-IR-97623	Drill Site 04	Produced Water	209.98	Overfilled tank due to frozen transfer line.	YES -		Overfilled tank due to frozen transfer line.
12/22/90	1990-IR-97211	Drill Site 05	Diesel	209.98	Sprayed from broken hardline union.	YES -		Sprayed from broken hardline union.
3/2/91	1991-IR-97637	Drill Site 17	Seawater	209.98	Tank leaked during filling.	YES -		Tank leaked during filling.
8/13/91	1991-IR-97532	Seawater Injection Plant	Seawater	209.98	Overfilled vaccuum. truck.	YES -		Overfilled vaccuum. truck.
2/12/90	1990-IR-96336	Drill Site 13	Seawater	209.98	Overfilled upright tank.	YES -		Overfilled upright tank.
7/14/89	1989-IR-96719	Flow Station 2, Not specified	Seawater	209.98	Gasket leaked during pressure test.	Not specified	Not specified	Not specified
5/9/82	1982-IR-96073	Central Compressor Plant, Not specified	MEG	209.98	Relief valve opened	Not specified	Not specified	Not specified
3/7/78	1978-IR-96006	Drill Site 01, Not specified	Crude Oil	209.98	Flow line oil spill	Not specified	Not specified	Not specified
7/7/79	1979-IR-96011	Drill Site 03, Not specified	Crude Oil	209.98	Oild pressure relie	Not specified	Not specified	Not specified
8/19/83	1983-IR-96125	Drill Site 12, Not specified	Crude Oil	209.98	Relief valve opened	Not specified	Not specified	Not specified
7/19/77	1977-IR-96000	Flow Station 1, Not specified	Crude Oil	209.98	Oil leak from build	Not specified	Not specified	Not specified
6/14/84	1984-IR-96142	J Pad, Not specified	Diesel	209.98	Drain connectn leak	Not specified	Not specified	Not specified
7/10/83	1983-IR-96121	Flow Station 2, Not specified	Crude Oil	209.98	Overfilled tanker	Not specified	Not specified	Not specified
1/17/86	1986-IR-95958	Well Pad, Roads, Not specified	Diesel	209.98	Tipped over truck	Not specified	Not specified	Not specified
3/12/84	1984-IR-96154	Drill Site 05, Not specified	Crude Oil	209.98	Oversprayed area	Not specified	Not specified	Not specified
3/17/88	1988-IR-100832	Point MacIntyre, Not specified	Diesel	209.98	Valve not closed	Not specified	Not specified	Not specified
4/29/86	1986-IR-100683	Not specified	Crude Oil	209.98	Overfilled tank	Not specified	Not specified	Not specified
5/9/82	1982-IR-96072	Central Compressor Plant, Not specified	MEG	209.98	Overflowed tank	Not specified	Not specified	Not specified
11/14/87	1987-IR-96383	Drill Site 07, Not specified	Crude Oil	209.98	Valve left open	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/30/88	1988-IR-96589	Flow Station 3, Not specified	Seawater	209.98	Valve left open	Not specified	Not specified	Not specified
11/11/88	1988-IR-96266	Flow Station 1, Not specified	Crude Oil	209.98	Corrosion leak	Not specified	Not specified	Not specified
10/24/88	1988-IR-96536	Central Gas Facility, Not specified	MEG	209.98	Tube ruptured	Not specified	Not specified	Not specified
9/25/86	1986-IR-96158	Flow Station 1, Not specified	Crude Oil	209.98	Ruptured hose	Not specified	Not specified	Not specified
5/3/85	1985-IR-95923	Flow Station 3, Not specified	MEG	209.98	Loose fitting	Not specified	Not specified	Not specified
12/11/88	1988-IR-100731	Not specified	Seawater	209.98	Valve leaked	Not specified	Not specified	Not specified
3/12/86	1986-IR-96178	COTU Facility, Not specified	Crude Oil	209.98	Line failure	Not specified	Not specified	Not specified
10/20/88	1988-IR-96534	Drill Site 03, Not specified	Crude Oil	209.98	Valve opened	Not specified	Not specified	Not specified
6/11/88	1988-IR-96418	Hot Water Plant, Not specified	Crude Oil	209.98	Tank leak	Not specified	Not specified	Not specified
3/20/99	1999-IR-98838	Flow Station 2	Produced Water	207.98	Hole in B train slug catcher sand jet return line.	"3/21/99 - 3/23/99 - Closed all valves; depressured, installed clamp over hole in pipe. Contacted SRT for clean up. SRT used picks/jackhammers to chip up snow/ice/gravel and shovel into bobcat, then placed the material into a dumpbox. The material was m		Hole in B train slug catcher sand jet return line.
12/22/99	1999-IR-100925	West Beach	Fresh Water	205.98	Unobserved steam coil line was partially embedded and covered in urethane insulation covering the outer wall of the tank. It began to leak due to integrity of the coil pipe structure inside the tank failing. The unseen coil pipe had no cap."NON REPORT	After the material was froze solid it was scratched up with a loader and taken to Pad 3 with the dump box.		Unobserved steam coil line was partially embedded and covered in urethane insulation covering the outer wall of the tank. It began to leak due to integrity of the coil pipe structure inside the tank failing. The unseen coil pipe had no cap."NON REPORT
4/5/93	1993-IR-100854	West Beach	Diesel	204.98	Needle valve leak caused slop trailer to overfill and overflow onto the pad.	Metis/Cleanup		Needle valve leak caused slop trailer to overfill and overflow onto the pad.
2/19/87	1987-IR-96244	Central Gas Facility, Not specified	MEG	201.98	Heat trac ln ruptur	Not specified	Not specified	Not specified
6/9/06	2006-IR-1866604	Main Construction Camp (MCC), MCC Firewater pump shelter., Non Process Area	MEG	200.00	MAINTENANCE HAD A PHONE MESSAGE, LEFT BY SECURITY, THAT THEY RESET THE GLYCOL ALARM IN THE BOILER ROOM DURING THE NIGHT. THE CREW FOUND THAT THE SYSTEM WAS LOW ON GLYCOL AND PROCEEDED TO LOOK FOR THE LEAK. AT 8:15, THE LEAK WAS DISCOVERED IN THE FIRE WATER PUMP HOUSE. A DIELECTRIC UNION GASKET FAILED, RELEASING A 50/50 GLYCOL / WATER MIXTURE WHICH WAS PRIMARILY CONTAINED IN THE PUMP HOUSE . THE SPILL HOTLINE WAS CALLED AND SRT CLEANED UP THE GLYCOL MIXTURE FROM THE FLOOR AREA. THE GASKET WAS REPLACED AND THE SYSTEM PUT BACK INTO SERVICE. THE WASTEWATER PLANT WAS NOTIFIED THAT SOME GLYCOL WOULD HAVE ENTERED THEIR SYSTEM THROUGH THE SUMP IN THE PUMP HOUSE.	Vac truck was used to remove all fluid's.	Fluid's were brouyght to Pad 3 for disposal.	Release will be reported on monthly wastewater discharge monitoring report submitted to ADEC / EPA per permit requirement. NOTE: all ggenies were notified of release.
2/26/06	2006-IR-1738510	Drill Site 09, Drill site 9 well 41, FS2/COTU	Propylene Glycol	200.00	A small amount of glycol (~1/4 gallon) was released into secondary containment from glycol cooling tank for the rig drawworks while rig crew was in process of tripping out of hole with drill pipe. A corrective action by installing a longer vent hole and elevating it high above the tank. Operations resumed but were shut down soon afterwards due to the glycol still foaming from the vent line. The vent line was then plugged and the hatch was shut thinking the vent line running from the tank to the draw works would serve as an adequate vent for the tank. Operations were resumed again. Approximately 7 stands were pulled and glycol was found coming out of the vent line in the drawworks. The cooling tank had built pressure and pumped approximately 200 gallons of gycol into the drawworks secondary containment pan. The entire cooling system was drained and replaced, since then no further incidents have occured.	Glycol was pumped out of containment into empty drums for disposal.	The glycol was removed from the secondary containment by pumping into empty drums and then transported to injection facility for disposal.	The glycol in the cooling system was believed to have been contaminated so the entire volume of the system was drained and refilled with new fluids.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/14/01	2001-IR-101682	Drill Site 11	Seawater	200.00	Upon restart of the SIP and reintroduction of pressure to the SWI system, the SWI pig receiver isolation valve failed to seat properly. The pig trap pressued up to SWI pressure of approx. 2800 psi at which time a the PSV, set for 3400 psi on the pig receiver relieved prematurely. Flow from the receiver entered the sump vessel in the manifold building with enough force to damage the antiquated level indication/alarm system within the vessel. This damage resulted in preventing the high level alarm from sounding. The level in the vessel came up until they exited the vessel via it's vent to atmosphere. The fluids, consisting of approximately 5 gallons of crude and 10 BBL of sea water accumulated on the gravel pad until the operator, on normal rounds, noticed the problem. None of the fluid left the pad to contact the tundra. All fluid was properly disposed of by SRT.	Freestanding fluids picked up by vac truck.	Pad 3 injection.	This information is being provided to ADEC per 18 AAC 75.300
3/21/03	2003-IR-464914	CPS Pad, CPS behind skid 109 snow shelter	MEG	200.00	At approximately 5 PM on 3/21/03 a CPS operator while making his rounds of the fuel gas skids noticed a small area behind skid 109 snow shelter where glyco was visible through the snow. the source of the leak was a glycol line to skid 105 fuel gas skid heater. Both the supply and the return lines were isolated immediately. Environmental and spill responce teams were notified. The CPS crew stated investigating as to just where the line was in fact leaking. The were able to determine that the leak had to be in the area where the piping comes out of skid 109 and then comes down to the ground area just behind the skid 109 snow shelter. This area was burried under about 6 to 8 foot deep snow drift. The CPS operator excavated the snow over the piping and were able to locate where the glycol was coming out of the piping insulation. The insulators removed the insulation from around area where the glycol was leaking. Do to the way the piping system was constructed we were unable to determine the actual source of the leak. The supply piping is a 1-1/2" pip which was run inside a 3" pipe. The glycol was leaking out the end of the 3" pipe. The part of 1-1/2" supply piping we could see when we removed the insulation was very corroded but didn't seem to be the source of the leak. We don't know at this time for sure is if the leak is in the corroded part of the pipe or somewhere up inside the 3" piping. The spill responce team has most of the glycol and contaminted snow cleaned up. They still need to clean the tundra that's been contaminted by the glycol.	The clean snow was shoveled off the tundra to expose and delineate the spill area. Once this was accomplished a super sucker was used to recover the snow and freestanding liquids. The residual glycol on the tundra will be flushed with warm water and recovered using a super sucker.	The contaminated snow has been taken to T-Pad Storage Pit. The flush water and residual glycol will be taken to Pad-3 for disposal.	Walt Sandell of ADEC has inspected the spill site.
6/16/07	2007-IR-2304231	Central Gas Facility, CGF, Module 4924, CGF/CCP	Hydraulic Fluid	200.00	During a plant upset hydraulic supply tubing to hydraulic actuated valve 24F1129AV failed. This failure released approximately 200 gallons of hydraulic fluid into the module. SRT notified to assist in clean up.	Recovered free standing fluids using drum vacs and sorbent pads. Approximately two gallons escaped the module and dripped to gravel pad beneath the module door. The contaminated gravel was removed with hand tools and bagged for disposal.	Absorbent went to oily waste. Gravel went to pad 3 for disposal. Fluid's went to Class 1 disposal sump.	Agencies were notified of release.
3/18/07	2007-IR-2193673	PBOC, PBOC B-Wing, Non Process Area	Sewage	200.00	During the PBOC Fire Alarm Upgrade project, eclectricians working on a fire alarm panel on 3/17 found it necsasary to remove power from the B-Wing Sewer Sump Pump. The electrical contractor claims the power was restored to the pump when work was completed but the main power switch to the pump was found off when the spill was reported at14:00 on 3/18.	Hot water was used to melt frozen sewage, and recovered by Vac truck.	Melted sewage was brought to Pad 3 for disposal.	Agencies were notified of release.
4/4/05	2005-IR-1308509	Flow Station 2, Flow Station 2, Module 4940, Drill Site 16 Pig Launcher, FS2/COTU	Produced Water	200.00	The Drill Site 16 pig launcher door assembly O-ring failed causing a produced water spill.	Recovered with vacuums and mopping, and then put in the module sump to recycle.	Recycled back into the system at Flow 2.	Immediate notifications were made.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/20/03	2003-IR-571891	Lisburne Production Center, LPC Mod. 4954B	Lube Oil	200.00	LPC suffered a lube oil fire on Turbo Generator #1 in Module 4954B. A fire initiated Halon Dump extinguished fire through release of thirteen 300# bottles. The GPB Fire Department was called out immediately. Investigation indicated a ½” SS tubing in servo oil system had parted. The servo oil system generates high-pressure oil flow to operate the electro-hydraulic fuel control servo actuator, the servo valve for the engine combustor bleed valve, and the variable inlet guide vane servo valve. Tubing found to be parted was return line from pressure control valve PCV903 that is located down stream of servo pump P904. PCV903 regulates the pressure as required for operation of fuel control actuator, bleed valve and inlet guide vanes. High pressure generated by servo pump enters PCV903 and acts on diaphragm to lift poppet thereby opening valve. This action is opposed by a spring. When pressure overcomes spring load (set pressure of the valve) the diaphragm moves to allow poppet valve to bypass excess pressure. This excess pressure is relieved through aforementioned failed return line and is routed to lube oil drain that returns lube oil back to the reservoir.The tubing failure was directly below the gas generator. Failure was such that lube oil spray was directed towards combustion and exhaust sections of turbine. This resulted in a decomposition breakdown or ignition of the lube oil. Per MSDS, the auto ignition temperature for Ideal Plus lube oil is estimated to be 780F. An infrared temperature survey of identical turbines that are on-line indicated a maximum surface temperature of 600F on exhaust outlet spacer. It is also quite possible lube oil being in mist form may have migrated through insulation panels associated with exhaust plenum and contacted exhaust surfaces that may have been near or greater than lube oil auto ignition temperature of 780 F.Upon inspection of the failed tubing, the break was noted directly upstream of the ferrule and the back ferrule was noted as being installed incorrectly (i.e., backwards). It is suspected the back ferrule having been installed backwards created a high stress location on respective tubing. Test models were made up to duplicate defective installation as well as proper make-up (see Attachment 1). It was noted that properly made up model passed the go/no-go test while the improperly made up model did not. However when the failed fitting was checked, it passed go/no-go test. This led to the conclusion by investigation team that the go/no-go test is not a field verification tool to identify those installation that are improperly made up with the back ferrule installed backwards. It was also noted that the improperly made up connection could not be tightened more than 1 ¼ turn specified by Swagelok installation procedure. The failed tubing/fitting will be submitted to Swagelok for failure analysis. Also noted on failed tubing run were multiple sever wear locations apparently caused by the tubing clamps used to support/secure the tubing. A few tubing clamps were found to have failed to the point where their support duty was non-existent. There is a high degree of confidence that the wear gouges found on the tubing and the failed tubing clamps found were caused by vibration suffered over a long period of time. The investigation team is reasonably sure the fitting found incorrectly made up would have had some pressure containment integrity; has a high degree of confidence the vibration forces imposed on tubing shortened life cycle of an already compromised fitting make up and was a major contributor to the failure.	Sorbents, and Barrel Vac's were used recover fluids.	Oiled sorbent went to oily waste stream, recovered fluidswere recycled for reuse.	Agencies were verbally notified.
9/19/05	2005-IR-1552665	VMS Building, VMS Pad, WOA, Non Process Area	Sewage	200.00	Approximately 200 gallons of raw sewage was released to the ground/pad at the VMS building as a result of a transfer hose on the waste water truck not being secured properly with an end cap.	The affected sewage truck was offloaded by another sewage truck to reduce the volume and stop the spillage. The areas was disinfected with a bleach solution in spray cans. The contaminated gravel was removed with a loader, dump truck and hand tools.	All contamiated Gravel was disposed at Pad 3, West Pit	See Investigation.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/14/05	2005-IR-1579646	GC-2 PWH Section, GC-2 skid 408, GC2/SAT	Produced Water	200.00	While making his normal rounds the area operator discovered produced water running onto the floor of Skid 408 from the "A" Sulzer pump compartment. When he looked in the compartment, he did not see anything leaking from the pump. He notified the lead operator and they found that the floor drain for the pump compartment had produced water flowing up the drain and into the compartment. Further investigation showed that the one of the pump case drains had started leaking through. It was leaking to the point that it overwhelmed the piping capacity to the sump and water backed up in the drain piping. Since the floor drain also is connected to this drain piping, the water back up and out the floor drain. Once the floor of the pump compartment was covered, water leaked out onto the floor in Skid 408. The operators shut down the pump. When the pump was down, the rate the water was entering the drain system slowed and the floor drain began flowing the correct way and drained the pump compartment floor. All of the water was contained within the skid floor containment.	The produced water on the floor of skid 408 was vacuumed up with a drum-vac and discharged into the sump in skid 408.	The 200 gallons of produced water that was recovered went into the floor sump and back into the facility process stream. Oily waste generated during the spill clean up was taken to the North Slope Borough oily waste disposal facility.	
4/4/06	2006-IR-1787272	GC-2 Oil Section, GC-2 Skid-16, GC2/SAT	Crude Oil	200.00	On 4/4/2006 a maintenance technician entered skid 16 and discovered oil coming from 202D shipping pump. He notified the area operator who instructed to have the pump shutdown and he isolated the pump that stopped the leak. During the investigation it was determined that the leak was coming from the shipping pump mechanical seal. All of the oil was contained with-in the skid containment. Below is a preliminary RCFA report on the shipping pump seal failure at GC-2. When we receive the formal report from Flowserve that will be included in the final report. The rotating element installed in this pump was rebuilt on April 30, 2003. The pump rebuild/record sheet indicates all bearing fits, wear ring clearances and shaft run-outs are within OEM specifications. During the rebuild a new Flowserve seal (model BXQ 2625 5X4X) was installed. This rotating element was installed in the P-202D berth on or about November 27, 2005. This pump remained in service until the GC-2 OTL spill necessitated the GC-2 shut down. Upon facility re-start (4/3) the shaft seal failed causing a spill of app 120-140 gallons of crude oil in the module. The pump was energy isolated for a seal change and the defective seal replaced. The removed seal was brought back to the Central Maintenance Shop for disassembly and inspection. Following the disassembly in the central maintenance shop (Junior Ayay, Fritz Guenther and Matt Bender) the seal was sent to Rick Matchett at the Flowserve seal repair facility in Wasilla AK. Initial disassembly: Visual inspection of the assembled seal noted no obvious discrepancies. The seal sleeve to shaft o-ring appeared to have a minimal amount of "crush". (Note: Flowserve will be asked to investigate this and revise drawings and or quality control if this is a defect.) Other than lack of crush the o-ring was intact, pliable and showed no evidence of leakage between the shaft and seal sleeve. The Rotating and stationary parts of the seal were separated and inspected. A large amount of solids/sand were found inside the seal face area. The stationary face (silicon carbide) had a deep radial wear track corresponding to the width of the rotating face and 2 ea. pits or spalling on the contact face of the ring. The stationary face o-ring seal was intact and pliable but starting to take a square set and packed with sand. The rotating face (carbon) was intact and had a rough surface finish. The rotary face carrier was removed from the sleeve, we didn't inspect the metal bellows weld but did note that the carrier to sleeve o-ring was in 2 pieces and had a square set to it. Sand was also present in this o-ring groove. The seal was packaged and sent to Flowserve Wasilla for more in-depth failure analysis. Below is a preliminary report from Flowserve Seal Technician Rick Matchett: "The radial wear track in the stationary face was caused by abrasive wear. The spalling and square set o-ring was caused by excessive heat. The carbon rotating ring had an intermittent wear track caused by a phenomena called skip-step, i.e. the faces get stuck together then release, also caused by heat. The skip-step was strong enough to cause the set screws that attach the rotating face carrier to the shaft sleeve to slip effectively destroying the o-ring seal."	The free standing crude oil in the skid was sucked up using a vac truck and air operated drum vaccum systems. Next the floor was prressure washed and fluids recovered with a vac truck. A final wipe down of residual crude was performed with rags and absorbent pads.	The free standing liquid was recycled at GC-2. The absorbent material and rags have been taken to an approved NSB oily waste dumpster.	
10/10/06	2006-IR-2034884	BOC, BOC, Non Process Area	Sewage	200.00	During power outage sewage drained back into lift station causing it to overflow.	Most all the sewage returned down facility drain. The material that was outside the skid was clean up using disinfectant and lime.	Most all the sewage returned down facility drain. The material that was outside the skid was clean up using disinfectant and lime.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/9/03	2003-IR-455079	GC-2, GC-2 Skid 408	MEG	200.00	Employee was topping off the seal buffer fluid reservoir on two of the facility injection pumps. After opening the valves to fill the reservoirs, employee noticed a pulsation dampener on the same skid that was low on nitrogen pressure and decided to charge the dampener while waiting for the reservoirs to fill. While his attention was directed at the new task, employee forgot to keep track of the level in the buffer fluid reservoirs and both units overfilled and spilled out the vents. Fluid was contained within the module and none escaped to the pad.	Vac units were used to suck standing pools of liquid into 55 gallons drums. Sorbent material was used to soak up around vessels and pipework.	The liquid was taken to Pad 3 disposal facility, the sorbent material was taken to approved oil waste dumpster.	
9/2/01	2001-IR-114265	PBOC, A wing PBOC	Sewage	200.00	The PBOC electrician and plumber were in the process of repairing the leak on B-Wing waste water line when they noticed water leaking under the utildor by A-Wing. They discovered it was leaking from the A-Wing waste water line. The leak was comming out of a joint where the pipe is glued to a flange the same as B-Wing. Before repair work started all sumps were evacuated and pumps shut in. MCC transfer pumps were shut in and the vac truck was standing by. Approximatly 1/2 gallon was released to the pad during repairs.	Recovered standing liquids with super sucker and spread lime over impacted area	Pad 3	
4/14/98	1998-IR-90529	Well Pad H	Corrosion Inhibitor	199.98	In December a chemical injection tubing line was repositioned to allow Shared Services to replace a flowline. The system was taken apart rerouted and put back in service. On Feb 24 an Instrument Technician (IT) was sent out to move the chemical line back into its original position. A no-go gauge was used to test the tightness of the fittings but torque seal was not applied. The IT mistakenly thought torque seal was only applied in new installations not a necessary step in a re-installation. The system was then put back in service and monitored for approximately one hour to check for leaks. No leaks were discovered during this test period. Seven weeks later, the H-Pad Operator discovered a leak on the feed line to the chemical injection system. Upon notification of the leak an IT was again sent out to the pad to investigate. After investigating the situation, a tee, valve, and assembly fittings were replaced due to the question of integrity and the pad operator inability to identify which part was actually leaking. (He had tightened the leaking fitting to stop the leak.) Again a no-go gauge was used and this time torque seal was applied to the fittings.		Recovered liquids were taken to ARCO Pad 3 for non-hazardous waste disposal during the initial spill response. Reserve pit dewatering made use of the water in an H Pad enhanced oil recovery well.	Valve failure on corrosion inhibitor line. In December a chemical injection tubing line was repositioned to allow Shared Services to replace a flowline. The system was taken apart, re-routed, and put back in service. On Feb 24 an Instrument Technician
7/30/99	1999-IR-94127	Well Pad U	Produced Water	199.98	Small needle vavle on PWI well left open in skid 69. More information will be included once it becomes known An instrument tech had been doing tubing integrity inspections/repairs on the lower deck at skid 69 during the shutown time frame. On the 25th the tech inspected U-5 transmitter, but used the calibration bleed connection on the transmitter to depressure the line and not the sensing line drain valve. By practice, the techs always use the calibration port and never the drain valve. However, the tech remembers that on slot U-5 the drain valve plug was missing and now wishes he would have plugged it or mentioned it to the operator. We can conclude one of three things occured: 1. The unplugged valve was already open (several turns) and was either bridged over with scale or the well slot wasn't on injection prior to startup. (possible but doubful). 2. Given, this slot is on the ground level, one of the operators opened the valve to see if the system had depressured or used it as a vent and forgot to close it. (no other work was done on the water systems at U pad during the shutdown window). The start up operators on site say this never happened, Andy Hill is already home and couldn't be questioned, however, even operators not assigned to the pad may have been helping out and had access to the valve. 3. The tech who inspected the U-05 PT on the 25th of July (while honestly believing he never used that valve to drain, test, or depressure the tubing), is mistaken in his recollection. If this is the case I don't want to imply he's deliberabely misleading or covering up, it's just a possibility he doest' remember.	Sump pump in skid and hand wiping of remaining product was clean up actions.	Material was put into slope oil tank for recycle.	Unknown at this time why or what cause valve to be open.
5/8/76	1976-IR-95969	Main Construction Camp (MCC), Not specified	Diesel	199.98	Strge tank seam lea	Not specified	Not specified	Not specified
5/8/76	1976-IR-95970	Main Construction Camp (MCC), Not specified	Diesel	199.98	Fuel sorage tank lk	Not specified	Not specified	Not specified
3/8/82	1982-IR-96101	Surfcoat Pad, Not specified	Diesel	199.98	Hose hit by grader	Not specified	Not specified	Not specified
8/4/81	1981-IR-96053	Drill Site 16, Not specified	Diesel	199.98	Truck overturned	Not specified	Not specified	Not specified
1/3/80	1980-IR-96019	COTU Facility, Not specified	Diesel	199.98	Overfilled tank	Not specified	Not specified	Not specified
3/23/82	1982-IR-96102	COTU Facility, Not specified	Diesel	199.98	Overfilled tank	Not specified	Not specified	Not specified
2/9/89	1989-IR-96822	Drill Site 09, Not specified	MEG	199.98	Hose disengaged	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/3/88	1988-IR-96561	Drill Site Maintenance, Not specified	Methanol	199.98	Valve left open	Not specified	Not specified	Not specified
3/19/81	1981-IR-96067	Central Compressor Plant, Not specified	Lube Oil	199.98	Unknown	Not specified	Not specified	Not specified
3/29/04	2004-IR-851125	Well Pad N, N-Pad Well 11 corrosion inhibition injection system down stream of filter., GC2/SAT	Corrosion Inhibitor	190.00	The chemical operator during normal daily rounds noted a slight loss in the Corrosion Inhibitor system pressure as well as a slight increase in the pad rate at N-pad. As this is a common occurrence he left N-Pad and proceeded to assist in a tank fill at another location before returning to N-pad to investigate the cause of the anomoly. The operator checked the Corrosion Inhibitor high rate users first as protocol to determine if a runaway (internals washed out) valve was present or not. No problems were indicated. He then proceeded to do a systematic check of the entire pad in an effort to identify the problem. On the 4th well from his last check he entered well 11 and found the spill in progress. The tubing had parted from the Swagelok fitting located between the isolation valve and the SkoFlo valve. Corrosion inhibitor was streaming from the tubing directly into the well cellar. The employee then closed the isolation valve and halted the spill without potential personal exposure. Immediate notification was made to 5700 and CIC supervision.	The free standing liquids in the well cellar were removed with a Vac Truck. Snow was shoveled into oily waste bags for disposal. The contaminated Gravel was removed with a super sucker and hand tools.	The free standing liquid in the vac truck has been taken to GC-2 for benificial reuse. The contaminated snow was taken to the hazardous waste process facility. The contaminated gravel will be removed and handled as hazrdoua waste.	Spill was intially believed to be 30-40 gallons. On April 2nd a spill review meeting was conducted to determine cause and exact volume of spill. The cause was a fitting failure on a Swagelock fitting. The volume was looked at from two different ways; one was an area calculation and other was based on maximum flow rate. Based on area calculation, volume was 189.5 gallons of fluid. The maximum flow rate that could have been released in a worst-case scenario was 175 gallons. After review we feel certain these numbers reflect true volume of material released. Estimating volumes from a float gauge on the 300-barrel vac truck is not an accurate source for determining volumes; therefore that is why we chose to look at area calculations and flow rates. The maximum corrosion inhibitor flow rate on N-pad is 10 gallons per hour. There was a 17.5 hour gap in time between last inspection of N-11 and discovery of spill. 17.5 hours x 10 gallons = 175 gallons.The area of the spill measure out to be:120" x 96" x 3.8" = 43,776 cubic inches. Using this information with the 231 cubic inches = 1 gallon formula the result came to 189.5 gallons. So to be conservative we are calling this a 190 gallon spill of corrosion inhibitor.
4/25/03	2003-IR-494359	MCC Fuel Dock, MCC Fuel dock, snow melt tank	Diesel	187.00	Snow melt container was being thawed by steam overnight on 4-23-03 Thursday. The snow melting operation was last checked at 9PM. The following morning at 5:45AM the operation was checked again and a pinhole leak was discovered. The leak was completely contained into the secondary containment that the snow melt container is staged in.	Liquid and snow was vacumed up with a super sucker and taken to T-pad.	Material was taken to T-pad for disposal.	
9/28/06	2006-IR-1996888	GC-2, GC2 Skid 4A, GC2/SAT	Crude Oil	185.00	The ASRC pump unit was rigged up on well Q-01attempting to clear an ice plug from the flowline. The plug appears to have dislodged causing a pressure gauge in Skid 4A to fail at a tbg. fitting and begin leaking.	Hand tools were used to remove small amount of gravel from outside skid. Chemical cleaner and sorbents were used to clean affected area in skid.	The gravel was taken to DS-4 Grind and inject. The sorbent material was disposal in an approved oily waste dumpster.	The verbal notification was made on 09/28/06 at approximately 1:15 AM by the WOA environmental advisor.
8/14/01	2001-IR-109261	Well Pad S, S-Pad	Drilling Mud	170.00	While drilling surface hole, the flow line plugged causing drilling mud to overflow the drip pan, leak into the cellar and onto the pad. Approximately 2 gallons of mud reached the pad.	All of the liquids in containment were removed using a vac truck. The contaminated gravel was cleaned up using a super sucker.	All of the material was taken to Grind and Inject facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/25/06	2006-IR-1771206	Drill Site 16, Cellar on Drilling rig Doyon 14, FS2/COTU	Diesel	168.00	Pulling TWC from Tubing hanger - Annulus valve left open as TWC was pulled - fluid u-tubed causing flow out annulus valve spilling onto matts and apron around well	Used rig vacuum - absorbent for clean up .	Oily waste bags containing absorbent will be picked up by tool service - liquid volume vacuumed up into rock washer to be picked and taken to Pad 3 for disposal - Contaminated gravel (5 gallons) picked by EOA, SRT for disposal at G&I.	Agencies were notified of release. There was a sewater spill (# 06-068) that had contaminated some of the gravel underneath the rig mats. That spill was cleaned up and confirmation samples were taken.
7/13/06	2006-IR-1906096	Well Pad D, D-14a cellar box, GC1	Fresh Water	168.00	Wellbore fluids were leaked into well cellar from hole in 13-3/8" Surface Casing. Rig was moved onto well with prior knowledge of casing leak. Precautions were taken to prevent well fluids from contacting gravel in the bottom of cellar by lining cellar with herculite.	A vac truck was on location to remove all the fluids.	Disposed of at Pad 3.	This was a known leak in the casing prior to starting the rig work over. The potential for fluids leaking in cellar box was discussed with Drilling HSE Advisor, GPB Enviro Services, and SRT.
3/10/01	2001-IR-100987	Well Pad Y	Drilling Mud	168.00	During rig up from the substructure module to the pit module the flowline hose was compressed, resulting in a stress fracture in hose. During routine drilling operations, hose began leaking, spilling an estimated 4 barrels of quickdrill waterbase mud between modules and under pit module rig mats	Clean up will be done once rig has moved from site. Approximately 17 days.	The classII material was placed in the cuttings tank and then taken to the Grind and inject plant.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300
10/7/02	2002-IR-332795	Drill Site 16, DS 16 # 13	Fresh Water	168.00	A VECO Vac truck driver was dispatched to drill site 16 to off load 100 barrels of 40-degree fresh water into a VE (tiger tank) containing diesel and NGL’s. The driver had off loaded all the fresh water, and when the line was empty some air was introduced into the VE tank. At that point the contents of the tank boiled over rapidly releasing a large volume of fluid to the containment dike and surrounding gravel pad. The incident was reported immediately and a full investigation is ongoing. There were no injuries associated with this event.	60 Degree water was used to melt contaminated snow and slush that was caught in the containment so it could be pumped to another tank (tank no. 2). The content of tank no. 2 was then pumped into common line 16-29 for hydrocarbon recycling at Flow Station 2. Approximately 400 barrels of fluids were pumped from tank no. 2 into common line 16-29. After the tank and containment were moved loader, trimmer and hand tools were used to remove contaminated material.	Fluids put back into process for benificial reuse, 158 cubic yards of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 10/7/02.
11/1/01	2001-IR-130219	Well Pad Y, WOA, Y-Pad, Y-17B	Seawater	168.00	A release of approximately 4 barrels of 3% KCl water occured on Y-Pad at the Y-17B location as the result of the failure of a connection between a 4" rubber hose and a 4" steel king nipple. The release occured when the fluid was being transferred from a 400 barrel upright tank to the rig pits. The location of the failed connection was at the point where the fluids entered the rigs steel lines. Secondary containment for the fluid was quickly overcome after the failure and personnel took immediate action to stop the spill. The spill quickly froze once exposed to the pad and was scraped up for removal by the SRT.	The frozen (3%KCL/Water) mixture was removed from the snow covered gravel pad with a loader. The material was placed in a dump truck for disposal transportation.	Frozen water and contaminated gravel will be hauled to a class I solid waste pit at Pad 3.	
12/30/93	1993-IR-97405	Drill Site 05	Crude Oil	167.98	See spill #2513. This is recording the spillage to tundra from the DS5-23 spill on 12/30/93. - 1995 Remediation Sampling Proj.	Metis/Cleanup		See spill #2513. This is recording the spillage to tundra from the DS5-23 spill on 12/30/93. - 1995 Remediation Sampling Proj.
9/16/91	1991-IR-97545	Drill Site 09	Crude Oil	167.98	Valve on a flowback tank was impaired and allowed material to leak out.	YES -		Valve on a flowback tank was impaired and allowed material to leak out.
7/27/90	1990-IR-97056	Seawater Injection Plant	Seawater	167.98	Plug in end of loading hose was not replaced after loading ops.	YES -		Plug in end of loading hose was not replaced after loading ops.
9/11/92	1992-IR-97784	Drill Site 09	Produced Water	167.98	Tank overflowed due to gas bubble during flow back activity.	Metis/Cleanup		Tank overflowed due to gas bubble during flow back activity.
5/26/92	1992-IR-97359	Pad 3	Crude Oil	167.98	High level shutdown on shale shaker hopper failed	Metis/Cleanup		High level shutdown on shale shaker hopper failed
5/9/92	1992-IR-87901	GC-1 Pad	Seawater	167.98	Peak driver was loading seawater at the Seawater loading station. Due to driver/loader inattention the truck was overfilled causing seawater to spill out the vent line on the truck onto the pad. (Driver did report the spill).		All contaminates to be hauled to Arco Pad 3 lined pit.	The vac truck was overfilled causing the spill.
4/14/91	1991-IR-97227	Drill Site 01	Seawater	167.98	Washing out wellhead w/ lockdown plug out.	YES -		Washing out wellhead w/ lockdown plug out.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/25/96	1996-IR-98319	Drill Site 13	Crude Oil	167.98	Over filled frac tank while loading tank.	Used loader bucket and shovels to pick up contaminated snow and ice. - Contaminated snow and ice were taken to Pad 3 East Pit on 2/26/96 to be held for future disposal.		Over filled frac tank while loading tank.
3/1/99	1999-IR-100926	Drill Site L5	Produced Water	167.98	Heater coil on a H&V unit sprung a leak.	Vacuumed up glycol and wiped up rest. All contained & disposed of. Pad 3 w/liquid & absorb went in oily waste bags then to line oily waste dumpster.		Heater coil on a H&V unit sprung a leak.
2/21/94	1994-IR-88555	BOC	Drilling Mud	167.98	Operator started injecting fluids at the injection skid and heard something leaking. Employee walked outside and discovered insulated line leaking. Approximately 4 Bbls of fluid had leaked onto pad.		Material put back into ball mill.	Erosion of 2" line to injection well.
10/22/89	1989-IR-96797	Drill Site 02, Not specified	Seawater	167.98	Overfilled a tanker caused by leaving a pump on.	Not specified	Not specified	Not specified
5/26/86	1986-IR-95953	COTU Facility, Not specified	Diesel	167.98	Ice plug caused ovr	Not specified	Not specified	Not specified
7/15/86	1986-IR-95962	Drill Site 14, Not specified	Crude Oil	167.98	Strip threads w/pum	Not specified	Not specified	Not specified
1/2/86	1986-IR-100681	Not specified	Crude Oil	167.98	Drain valve opened	Not specified	Not specified	Not specified
4/22/86	1986-IR-100682	Not specified	Crude Oil	167.98	Connection break	Not specified	Not specified	Not specified
12/22/88	1988-IR-96585	J Pad, Not specified	Crude Oil	167.98	Pressure vented	Not specified	Not specified	Not specified
6/11/86	1986-IR-100685	Not specified	Crude Oil	167.98	Pump leak	Not specified	Not specified	Not specified
1/7/99	1999-IR-100920	Lisburne Production Center	Produced Water	165.98	Erosion caused a leak in a desander nozzle.	The water was disposed of in 4923 sump.		Erosion caused a leak in a desander nozzle.
1/5/01	2001-IR-95825	Access Road	Sewage	165.00	The rig camp is located on the DSL-5 access road. The sewer plant lift station pumps did not kick on automatically when the lift station was partially full due to a broken wire on the float switch. As a result the lift station tank filled and overflowed into the sewer plant. Approximately 155 gallons ran through the floor where the modules are fitted together and into the secondary containment below. 10 gallons flowed off the external landing door, beyond the secondary containment and onto the pad. The pump was switched on the reduce the fluid level and ACS cleared up the spill. The mechanism was then investigated for the cause- found to be a severed float switch wire.	Pumped freestanding sewage back into system. Chipped up frozen product and place in oily waste bags for disposal.	1 Cu. Yd. snow and ice	Site inspected by SRT. No visible product remaining.
7/7/01	2001-IR-53130	Drill Site 01, DS1 well 26	Crude Oil	160.00	Line was shut-in for a proration & pressured up to 2200#. There was a leak on the line that occured halfway between the well & the manifold building. Well was shut-in & blinded at both ends.	Recovered contaminated gravel with hand tools and heavy equipment. Lightly misted tundra was treated with insitu burning via hand-held propane wands.	Gravel taken to G&I Fluids taken to Pad 3 Absorbents and grass collected disposed of in oil waste dumpster.	Clean-up complete at this time. Vegetative regrowth will continue to be monitored unti 2003 as agreed to in the Monitoring plan.
4/18/95	1995-IR-98484	Warm Storage	MEG	159.98	"Vac truck was backing into warm storage area to offload fluid. Operator misjudged and struck a stack of containers, causing them to topple and spill into the lube service area."	Vac truck picked up fluids from the metal lube service sump. - Fluids were taken to FS1 to be recycled.		"Vac truck was backing into warm storage area to offload fluid. Operator misjudged and struck a stack of containers, causing them to topple and spill into the lube service area."
7/27/05	2005-IR-1475902	GC-2, GC-2 Skid 402, GC2/SAT	Corrosion Inhibitor	157.00	Corrosion Inhibitor tank #T-7510 over flowed in to containment area under tank. This was caused by not having a check valve in the system, and having a old fire water conection still hooked up to the discharge line of the pump. Fire water back flowed into the Chemical tank.	Free standing liquid in the containment pan was drained into the facility sump system. The residue in the containment pan and on the side of the tank was removed using a warm water flush from the fire system. The material was then picked up with an air operated vaccum and drained into the facility sump.	Material was reused in facility system.	
7/2/97	1997-IR-89436	Well Pad F	Diesel	154.98	Dewatering pump unit moving from Q Pad to F Pad had handrail fall on valve. Valve opened and filled secondary containment (built into the pump skid). Five gallons of diesel escaped secondary containment and reached the pad.		150 gallons of recovered diesel was taken to PE holding tank at Price Pad for future use.	Dewatering pump unit moving from Y pad to F pad had handrail fall on valve. Valve opened and filled secondary containment (built into the pump skid). Five gallons of diesel escaped secondary containment and reached the pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/16/05	2005-IR-1283801	Bulk Fuel Facility, WOA bulk fuel facility loading area., Non Process Area	Diesel	150.00	At 0500, 3-16-05 the operator of a 6,000 gallon fuel truck # 32-019 pulled up to the WOA bulk fuel facility to load his truck with diesel fuel. He stopped at a level place and strapped his tank before pulling up to upload fuel. After strapping the tank, it showed to have 4,200 gallons of diesel on board. He never fills to capacity, only to the 5,400 gallon level (90% volume) because of possible expansion of the fuel. The operator knew he needed 1200 gallons of fuel after strapping his tank to give him a full load. The operator then pulled his truck to the fuel dock and proceeded to set his truck up to upload fuel. When it came time to punch in the number of gallons he needed, he punched in the number of gallons on board (4,200 gal) instead of the number of gallons he needed for a full load (1,200 gal.). He thought he had plenty of time before he needed to physically watch the last 500 gallons being loaded (as per procedure). While completing paperwork in the pump shack, a passer-by flashed his spotlight into the operators face to get his attention. At that time the operator noticed the overflow. Before he got everything shut down, 70 gallons of diesel fuel had leaked to the pad while an additional 80 gallons had accumulated in the upper built-in spill containment of the fuel tanker.	Material/snow was recovered with a loader and placed into a dumpster for melting and hydrocarbon recycle. A vacuum truck was used to recover the additional fuel that had accumulated in the fuel truck's secondary spill containment area.	Recovered snow/diesel will be melted and sent to hydrocarbon recycle. Recovered gravel sent to pad 3.	*Initially reported on 3/16/05. Volume increase due to material that was contained in secondary containment on top of fuel truck and not included in initial spill report.
5/20/01	2001-IR-101438	Central Compressor Plant	Lube Oil	150.00	In support of major maintenance work on turbine compressor 1801, a lube oil pump was turned on by the operator. Lube oil sprayed out through a loosely attached end on one of the lube oil filters. The pump was shut-down after the leak/spray was noticed by a worker. No one was contacted by the spray, but a large volume was released (est ~150gal based on tank level guage change). The spilled lube oil was contained largely within the module, but a portion drained through the floor to the module soffit and on to the lined containment pit under the module. None of the spill got outside containment.	Drum vac used to pickup pooled fluids in module. Absorbents used to cleanup remainder.	Pooled oil that was vacummed up was placed in waste oil tank. Sorbents taken to Oily Waste dumpster. Three cubic yds of lightly contiminated gravel were taken to pad 3 for disposal. Absorbents disposed of in oily waste dumpster.	Some oil (approx 10 gallons) escaped into soffits. Soffits will be accessed and cleaned as part of cleanup. This information is being provided to ADEC per 18ACC 75.300.
4/24/07	2007-IR-2237229	Drill Site 03, FS2/COTU	Diesel	150.00	A worker walked by a portable diesel tank and noticed a strong diesel odor. The odor was reported immediately and investigated. A call was placed to 659-5700 spill reporting line to report a possible spill into secondary containment. An ACS spill tech arrived on location and the tank and secondary containment box were moved into the welding shop. The cylindrical diesel tank sits above a steel rectangular secondary containment box. The secondary containment box was inspected and found to contain diesel and snow. The containment box measured 10' x 5' and was estimated to contain 5" of diesel. The tank, fittings, hose, and valves were inspected and no leaks were found. There was no staining on the tank and no evidence of over filling the tank. The snow will be thawed and an accurate volume of diesel will be measured in the secondary containment box. All diesel was in secondary containment, and no material was released to the pad.	The snow in the containment was melted and the fluids sent to Flow Station 1 for recycle.	Flow Station 1 Hydrocarbon Recycle	After the snow melts, a more accurate measurement will be made to determine the volume of diesel. Leak could not be found or duplicated.
8/26/06	2006-IR-1955455	GC-2 LPS Section, BPBW, GC-2, Skid 461, floor and outside in secondary containment., GC2/SAT	Lube Oil	150.00	At approximately 14:24 while starting gas turbine K7001 the unit operator noticed what appeared to be turbine lube oil dripping from the turbine bed onto the skid floor. A small amount leaked into the skid soffit which subsequently dripped into the secondary containment outside under the skid. The leak source was isolated and the machine was started the next day without incident.	The lube-oil that spilled onto the floor of skid 461 was recovered with the use of a drum-vacuum. The residual oil was wiped up with absorbent pads.	The recovered lube-oil was recycled. Oily absorbent pads were sent to an approved North Slope Borough oily waste dumpster.	GC-2 GPS coordinates for 150-gallon lube oil spill: N70*18.741 W148*51.705
5/27/06	2006-IR-1847320	Northern Gas Injection (NGI), Nabor's Rig 4es Camp located on NGI-09., Non Process Area	Sewage	150.00	Nabor's Rig 4es Grey Water tank overflowed. approx. 100-150 gallons of grey water spilled on ground. the spill was noticed @ 0515 hrs & reported @ 0530 hrs. Investigation revealed that the tank monitor was not working and that the sewage hauler had not emptied the tank when he worked on it that morning.	Contaminated gravel wasrecovered with a bobcat and dump box and taken to Pad-3 for disposal. Lime was then spread over the area.	The contaminated gravel was taken to Pad-3 for storage and future remediation.	Immediate notification to ADEC division of air and water quality were made.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/10/06	2006-IR-1687471	Well Pad, Roads, Intersection near F & G pad on the WOA., Non Process Area	Diesel	150.00	On Jan 10, 2006 at approximately 1700 hours, a BPXA Contractor was driving a BPXA pickup truck. The pickup started to turn off the F Pad road towards G pad access road in the path of a contractor tractor/trailer unit approaching from the opposite direction. This resulted in a near head-on collision. There were no passengers in either vehicle. The truck driver received minor injuries. The pickup driver was unhurt. The tractor trailer unit skidded off the road and impacted a bundle of 4 production pipelines. The affected pipelines were de pressured as a precautionary measure. The pipelines were not breached. However, diesel spilled from the tractor trailer unit¿s fuel tanks and fluids (glycol) leaked from the pickup truck. The spilled fluids were recovered and reported to State and Federal agencies.	A loader with a rake attachment was used to pull the contaminated snow from the edge of the road. Next an excavator was used to remove the top layer of contaminated material from the spill area into the dump truck, which was then transferred to the T-pad storage pit. Workers with snowmachines and shovels were used to remove the contaminated snow from the tundra area. The tundra area was then flushed with approximately 90 barrels of warm water which allowed the area to be flushed 3 times total.	Contaminated snow is being stored at the T-pad storage pit where it is currently being melted for recycled.	Samples have been taken and clean up operations have been demobillized.
3/18/05	2005-IR-1287170	Drill Site 17, DS 17-11 pad, FS2/COTU	Seawater	150.00	While washing over the PBR and attempting to mill packer, the pump was run intermittently according to good operating practice for this operation. The derrickman called another hand to the pits to relieve him for a few minutes. He told the hand that the pumps were not running at this time and he was slowly mixing duo-vis. After the derrickman left, the replacement hand turned the shaker off to reduce the noise level while he was mixing product and he felt that since they were not pumping, the shakers did not need to be running. Upon the derrickmans return, the replacement hand left the pits but neglected to tell the derrickman he had shut the shaker off. When the pump was started again, the shaker ran over and overfilled the cuttings tank.	Area bermed, liquid vacuumed up, ground scraped.	Final clean up material will be taken to T pad for disposal.	Agencies were notified of release.
8/4/06	2006-IR-1932057	GC-1, GC-1 Skid 18, GC1	Lube Oil	150.00	K-106 LP compressor lube oil pumps P-128 and P-126 pressure gauges failed causing external leak of lube onto the skid floor. Lube oil migrated through the soffit and into the lined secondary containment below the skid.	A vacuum truck was used to remove product from the containment. Absorbent was laid on the skid floor to clean up the lube oil inside.	The sorbents were taken to an approved NSB oily waste dumpster. The recovered oil from the containment was taken to GC-2 for hydrocarbon recycle.	Lat N70.18.428 Long W148.43.956
10/14/04	2004-IR-1090690	GC-2 Gas Section, GC-2 Skid-19, GC2/SAT	TEG	150.00	At approximately 11:00 PM the unit operator made a round through Skid 19 and noticed no abnormities. At 11:45 PM the Central Control Room received a ¿Low TEG Flow¿ alarm on the even train. The unit operator investigated the alarm and found P-219 HP TEG pump leaking TEG onto the floor of Skid 19. The unit operator shutdown and secured P-219 HP TEG pump to stop the leak. The spill reporting hotline was called in accordance with BP policies. The initial investigation found one of the packing adjustment nuts backed all the way off one of the cylinder and the packing came out. All of the liquid was contained with-in the skid containment system. update 10/17/2004 GC-2 mechanic removed the cylinder plunger head for root cause failure analyses. He discovered the piston stuffing box threads were damage that at first appeared to have happened after the packing nut backed out. Inspecting the other 4 piston stuffing boxes on this pump he discovered another piston stuffing box with corroded threads that possibility could have allowed that packing nut to back off also.	The free standing liquids were removed from the floor with an air operated vaccum. The residual glycol was hand wiped off the floor with absorbent pads. A final soap/water mop down was performed after this the material was removed from the skid.	The liquid was placed in the facility sump for class II disposal. The contaminated absorbent material was taken to an approved NSB oily waste dumpster.	
10/10/04	2004-IR-1084354	GC-1, GC-1 Deluge Pipe, GC1	Fresh Water	150.00	Discoloration of the snow was identified by Operators and SRT was notified. Once SRT was on sight they dtermined that there was a spill of ~55 gals of glycol into the containment pit of the deluge piping.	The contaminated snow, ice and gravel has been cleaned up using a Bobcat trimmer and loader.	All of the recovered contaminated materials have been taken to the T-pad solid waste storage area.	
2/23/05	2005-IR-1253258	GC-2, GC-2 skid 408, GC2/SAT	Produced Water	150.00	During process upset had a bad water hammer in the produced water discharge piping. A 1/2" sencing line to a pressure switch failed causing the release of produced water. The Swagelok tubing fitting was not made up correctly. The ferrule was not set on the tubing.	A vacuum unit and mops was used to recover standing liquids. Shovels were used remove affect snow.	All the liquids were put into the facility sump. The snow was taken to T-pad storage facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/14/01	2001-IR-145326	Well Pad J	Methanol	150.00	On December 14, 2001, Schlumberger personnel performing wellwork on J-Pad, discovered a leak of methanol and water (50/50 mixture) behind the J-03 wellhouse. Pat Reyes, J-Pad Operator, was contacted and the spill was reported to the GPB Environmental Advisor (Bill Fletcher) and the Field SPOC (Don Shugak). The SPOC notified the Spill Reporting Hotline (x5700) and the Lead Tech (Steve Matonis). BPXA notified the Alaska Department of Environmental Conservation, the US EPA, and the North Slope Borough. The J-03 flowline was immediately depressured into the slop oil tank inside Module 54. Later in the day, it was noted that the pressure had increased. The source of the leak was preliminarily identified as the bonnet of a needle valve on the lateral valve bypass loop. This bonnet was tightened to try to prevent further leakage. On December 15th, the line was depressured into the slop oil tank again, and the bypass loop was removed from the flowline. Two ¾” plugs were installed in-place of the bypass piping. After the plugs were installed, the flowline was pressure tested. The system held pressure, confirming that the bypass loop was the original leak source.	Handtools, loader and dump truck were used to clean affected snow and ice.	The exempt material was taken to Pad 3 disposal facility.	
1/1/01	2001-IR-95811	Central Gas Facility	Sewage	150.00	Waste water truck sucked out holding tank for envirovac in CGF Module 4913 at apprx. 00:30 on January 1, 2001. At approximately 11:35 on January 2nd a mounding of ice was discovered in the area near the off-loading valve for the envirovac. Upon investigation it was determined to be sewage, and the valve was fouund to be in a fully open position, and no Kamlock cap was in place.	Cleaned up using Jackhammers, shovels, etc.	Dispose of at Pad 3 under RCRA exempt guidelines	
9/26/05	2005-IR-1558511	Flow Station 1, FS-1 module 4912, oil section, FS1/SIP/STP	Produced Water	150.00	Module 4912 floor sump overflowed with a mixture of ~90% water, ~10% oil and condensate. The overflow was contained in the secondary containment within the module. The overflow resulted from valves being left open while returning the system to service, and a modification to a check valve that was not documented and overlooked. There was possible exposure to high levels of benzene to the operators engaging in spill clean-up, prior to SRT response.	Product was vacuumed and area wiped with absorbent pads. Fluids were returned to sump.	Material was recycled into module sump.	
2/18/99	1999-IR-93360	Well Pad T	Produced Water	150.00	Produced water leaked from valves connected to the barrel of the pig receiver at T pad. Several valves attached to this receiver were discovered to be leaking. This included the 6" and 2" block valves. The final failure in this system was the apparent wash-out of an O-ring seal in one of the hardline connections for the drain system.		Material was disposed at Pad 3	
2/6/96	1996-IR-91242	GC-3 PWX Section	Produced Water	149.98	At beginning of shift 18:00 hrs. sk.7 board operator started building tank levels in anticipation of up coming work to be performed that night, when the tank level was at or about 36 feet (overflow occurs at 39' 6") he began smelling a produced water odor in skid 7. He then confirmed his control board and saw that everything looked normal, but requested that the rover make a round to verify this. The rover found T-8512 overflowing thru the overflow vent and requested that the skid 7 operator lower the tank level, which he did stopping the overflow (300 gallons Crude; 150 gallons produced water). Skid 7 operator never saw overflow alarm.		The exempt Class II material will be taken to Pad 3. The fluids were taken to Arco Pad 3.	An Operator was filling tank 8512 at GC 3 when the tank overflowed, spilling approx. 450 gallons of crude & produced water into the surrounding lined area and onto some structures in the area. The overflow alarm did not sound and the operator had no indi
8/2/94	1994-IR-86132	Drill Site 04	Diesel	149.98	At the time of the incident the motorman was transfering fuel from the rig storage tank to the rig day tank while he was working on the #1 boiler. During this procedure the driller requested his presence on the rig floor. In his absence, the day tank was overfilled causing the tank to overrun from a manhole cover located on top of the tank. The motorman returned to find a diesel spill and immediately turned off the tranfer pump. He reported the spill to the driller. The supervisor was informed immediately and he contacted the Environ. Dept., Nabors Drilling Supt.and the HSE Coord to apprise them of the situation.The drilling crew immediately responded by containing the fluid to the pad and cleanup operations were implemented.The estimated loss of fluid is approx. 150 gals of diesel fuel with the removal of approx. 20 cubic yards of contaminated gravel (see spill report). Audible fuel alarm was working, but could only be heard in the motor room. A spill review board convened the next morning; remedial action items were discussed and implemented. (see attachment)		All material was non hazardous. The contaminated material was taken to Arco Pad 3 for disposal.	While transferring diesel to the rig day tank, the fueler was called to the rig floor by the driller and forgot he was filling the day tank. While he was away, the diesel overflowed the tank spilling approximately 150 gallons onto the pad.
4/23/95	1995-IR-87036	GC-2 Pad	Produced Water	149.98	The skid 301 M-Pad produced water pig launcher was pressured up due to isolation valve maintenance. The warm up gas line that ties into the launcher leaked high pressure produced water through the check valve and the block valve into the warm up gas header. The header pressured up to 700 # causing the header PSV's to relieve approx 150 gals of produced water to the outside of the skid. Pressure was taken off the launcher to stop the leak through to the gas header. Enviromental Dept was notified and cleanup was done by shoveling contaminated snow and gravel to a portable containment.		The material has melted and was vac'd out of the tank and reinjected into the system.	In the process of pressuring up the pig launcher barrel to M-pad with produced water, the check/block valve leaked pressure back into the fuel gas header causing the PSV to release the produced water through the atmosphere vent line.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/14/93	1993-IR-97928	Main Construction Camp (MCC)	Sewage	149.98	Impellers on lift pumps were plugged with paper causing the tank to overflow.	Metis/Cleanup		Impellers on lift pumps were plugged with paper causing the tank to overflow.
1/11/92	1992-IR-97689	Central Compressor Plant	Lube Oil	149.98	Material discharged from vent on compressor due to excess pressure.	YES -		Material discharged from vent on compressor due to excess pressure.
4/17/93	1993-IR-97898	Spine Road	Seawater	149.98	400 bbl upright tank slid off a trailer as it was being moved.	Metis/Cleanup		400 bbl upright tank slid off a trailer as it was being moved.
7/16/91	1991-IR-97494	Central Compressor Plant	Lube Oil	149.98	Oil leak from compressor bearing chamber vent.	YES -		Oil leak from compressor bearing chamber vent.
7/25/91	1991-IR-97505	Flow Station 3	Seawater	149.98	Overflowed sump due to faulty pump breaker.	YES -		Overflowed sump due to faulty pump breaker.
10/3/89	1989-IR-96774	Pad 10, Not specified	Methanol	149.98	During fill-up operation tank truck was overfilled	Not specified	Not specified	Not specified
11/15/81	1981-IR-96061	COTU Facility, Not specified	Diesel	149.98	Tanks ran over	Not specified	Not specified	Not specified
7/17/00	2000-IR-95092	GC-2 PWX Section, Under T-8511	Crude Oil	149.98	Incident #1: On July 1, while in the process of draining the PWX Skim Tank, T-8512, for an ADEC required 10 year internal inspection, a heavy rumble was heard and shudder felt at the Skim Tank location. After a meeting with parties involved it was determined that solids must have broken free from somewhere inside the tank, fell to bottom and caused the shaking. A meeting was held by personnel at location to determine action required. Since the shudder only happened once then stopped and a period of about 20 minutes had elpased without any indication of further problems it was decided to proceed with draining/safeout. We would need to drain the tank to facilitate any repairs necessary from shudder anyway, we could see that the inlet and outlet lines had been elevated from support beams. After about one hour after draining had recommenced, a second shudder was felt, then a third and fourth. At this time all operations were stopped. A call was made to Inspection and Engineering to come to location and review situation. After Inspection and Engineering, with the aid of P&ID's and tank drawings, made a review at location a meeting was held in GC-2 Break room to determine direction. It was decided not to proceed with anymore more draining but begin activities directed towards N2 sweeping and blinding. We wanted to reduce the hydrocarbon content in the tank vapor space to as low as possible and isolate tank from the rest of the process. Further investigation will be required when tank in safe to allow the opening of a manway. Incident #2: Occurred on 7/17/00 While draining/skimming the tank level to gain access through the manway(s), the internal structure settled and shifted in such a way to cause "violent" movement of the tank shell. During this event a tank tear occurred at the main outlet nozzle. Product discharged from this small break/split into secondary containment under the tank skid. Addtionally the the tank shell was torn in some areas where internal straps were pulled away from the tank wall. It is noted that this incident (#2) was part of an intentional effort to further fail the tank's inlet device to a safer energy state and was conducted under close supervision and technical guidance. Note: This incident has generated numerous project activities due to the nature of equipment damage. Included in this set of activities will be determination of appropriate investigation which will be the bulk recipient of action items.	Crude oil and gravel will be sucked up with super sucker and hand tools. Contaminated structures will be cleaned up by hand wiping or pressure washing.	Material will be taken to Drill Site 4 Grind and Inject Plant.	Please note change in date from original fax . Change from 7/01/00 to 7/17/00.
7/14/02	2002-IR-265026	Flow Station 1, FS1 module 4906A	Produced Water	147.00	Fire and gas alarms alerted FS Operators of a probable release in module 4906. Upon responding, it was immediately apparent the discharge was legitimate. Operators proceeded to determine the source and take action to gain source control. The control room operator promptly called in the emergency for an ERT all-call. Operations' primary response was initiating the 5D common line inlet ESD valve closure, followed by blocking in/opening manual divert/header isolation valves. Source control, preventing escalation of the incident, was established at approximately 0830. Limited IMT intervention was mustered and an ICS form 201 was completed and faxed to Anchorage, followed appropriately by a situation status summary (ICS form 209). The definitive source of the release has been identified as a 12" check valve that had eroded (1 1/4" in thickness), resulting in a through wall penetration.	Recovered free liquids with Vac truck. Dewatered relief pit and insitu burned impacted vegetation.	4 cubic yards of material taken to G&I for disposal. Free liquids reused for intended purpose.	Initial notification made on 7/14/02.
4/15/01	2001-IR-101236	Lisburne Production Center	Crude Oil	146.00	Discharge line off the sump pump in Module 70 developed a leak that appears to be from corrosion. The leak is just up-stream of where the line ties into the flare KO pump discharge line. About 146 gals of crude and produced water leaked into the module.	Vac truck picked up gross fluids from module. Used sorbents to pickup remainder of fluids and wipe down module.	Fluids taken to Pad 3. Contaminated sorbents to oily waste dumpster.	This information is being provided to ADEC per 18 AAC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/31/04	2004-IR-1036091	Flowstation Common Lines, 200 yards east of FS-3, Non Process Area	Produced Water	143.00	CIC technician called control room and said there was a leak on the common line. Operators responded and discovered a small drip coming from 24" line out of insulation. Drill Site operators diverted production to other common lines and line was depressured. SRT was called.	Vacuumed up the crude and water with a vac truck. Sorbents were used to wipe up the area. Then the contaminated area was burned.	Contaminated water was sent to Pad 3 for disposal.	On Sept. 2nd a spill review was held at FS-3 to review the incident and to determine how the risk of a re-occurrence of this type failure could be reduced (see document attached to Traction report). In attendance were FS-3 Operators, FS-3 Ops Lead, FS-3 DS Ops lead and FS-3 AM, CIC TL, CIC piping inspector, ACS lead, the CIC technicians that found the leak, and the GPB, Environmental Advisor.
11/30/04	2004-IR-1150148	Central Compressor Plant, Module 4978 at the Central Compressor Plant. Valve F445AV, CGF/CCP	Hydraulic Fluid	140.00	At approximately 1430 the trigger valve controlling F445AV did not close completely and caused hammering in the main hydraulic system leading to the acutator for the valve. This fatigued the 1/2" tubing used to supply the fluid to the valve actuator causing the tubing to part at the swagelok fitting. The parting of the tubing cause about 140 gallons of arctic grade hydraulic to be discharged into the module.	The spilled material was picked up using absorbent material and will be disposed of at the central collection point.	Absorbent material was bagged and the Spill Response Team was called to haul the material to the central collection facility.	Agencies were notified.
11/12/03	2003-IR-676619	Well Pad S, S-107	Seawater	136.00	While performing a Frac job on S-107, a 3 barrel seawater spill occured while hydrating gel in the Precision Continuous Mixer (PCM). Operator had brought on 200 barrels of seawater from a frac tank and closed the air acuated intake valve. The hand valve inside the PCM was then opened to start circulating fluids. The operator then left the control panel to help with priming the pumps. ~ 2 minutes later the operator saw fluid running out of PCM door way and climbed the ladder to close the hand valve. Calls were made to SRT and BP/SLB to report the incident. The spill estimated at 3 barrels, was limited to the snow covered gravel pad. SRT will respond for clean up after the next frac jobs are completed and equipment is moved from location. It was determined that the air actuated valve malfunctioned, which allowed seawater to continue entering the PCM tank and over flowed.	A Bobcat with trimmer was used to clean up affected snow and gravel on the pad.	Material was taken to Pad 3 disposal facility.	
2/5/01	2001-IR-98920	Northern Gas Injection (NGI)	Seawater	135.00	NGI - Flow Back Tank #1 leaked 3.2 barrels of seawater mix into a containment dike. This was due to an uncapped inlet riser pipe on the tank. The tank had been previously inspected and noted that the fitting was missing however at this time there is no established procedure for flagging and tagging out deficient tanks. The inspector tried unsuccessfully to cap the pipe. He then notified the Well Support foreman of this tank deficiency who had planned to send an employee to cap the pipe. The tank was place in service prior to the foreman sending someone to cap the pipe leading to the leaking of 3.2 barrels in the containment dike.	Recovered fluids with Vac truck and recovered snow with bobcat and hand tools	Class ll fluids taken to Pad 3 for injection. Class ll contaminated snow (10 cu. yds.) taken to pad 3 East pit	Discovered contaminated snow upon removal of liner. Recovered and disposed of material
7/11/93	1993-IR-88678	Well Pad D	Seawater	131.99	Well was killed with 370 bbls of seawater @ 6 BPM. 171 ft 2-3/8" coil patch was then retrieved from botton with 1-3/4" CTU. An additional 25 bbl of seawater was pumped before reaching surface. 2-3/8" coil patch was hung in slips of CTU. Well appeared dead. Fishing tools & Nowcam lubricator were rigged down and 45T crane was rigged up. Well was dead so procedure to pull the coil from the well was initiated. During this action a migrating gas bubble reached surface, pushing seawater/gas out of wellbore. At this time efforts were begun to stab a coil connector and TIW valve on the CT fish. After leaking 2-3 bbls of seawater onto pad it was decided to cut the coil to isolate well. The blind shears were then closed.			Well took a gas kick while doing tubing extraction. Seawater vented out top of Christmas tree onto pad.
1/29/07	2007-IR-2134248	Drill Site 11, DS 11-24A, FS2/COTU	Hydraulic Fluid	131.00	Hydraulic fluid leaked (131 gallons) from hydraulic tank on to floor. Most of fluid was contained (126 gallons) inside the rig. Approx 5 gal escaped onto the pad.	Drum vacs were used to recover the free standing oil. Absorbant pads were used to clean up the rest of the oil in the containment. A loader and dump box was used to recover the contaminated gravel after the rig had moved.	The recovered oil was sent in for recycle. Contaminated absorbent pads went to oily waste. Contaminated gravel was taken to Pad-3 for storage and future remediation.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/23/06	2006-IR-1951853	GC-3 PWX Section, Skid 402 6" drain line directly next to tee on south side of skid just above main floor level., GC3	Produced Water	130.00	GC3 was experiencing data highway problems and had lost K5500 compressor along with some visual indications on IP21. The area operator was on his way to confirm levels in our skim tanks and was passing through skid 402 when he noted the produced water on the floor in the skid. Although an exact confirmation of the location was not immediately apparent, he did note some small drips coming from the bottom of the pipe where the pin hole was eventually located. He notified skid 7 of the spill and donned a respirator so he could check for benzene levels. Initial levels were found to be at .5 PPM so he began ventilating the skid. While he was performing that task, the AMS made the proper notifications to the spill hot line and then he called the spill team for volume estimation and clean-up. The spill lead estimated the volume at 150 gallons. No fluids escaped out of the skid. The spill team donned respirators and completed clean up of the spill. A rated emergency repair clamp was installed at the leak site.	The free standing liquids were recovered with air operated vaccum units and hand tools. The material was then sucked up into a vac truck. A final wipe down of the area was completed by hand using absorbent pads.	The free standing liquids were taken to GC-2 for recycle. The contaminated absorbent pads were taken to an approved NSB oily waste dumpster.	The following is the Lat/Long of the spill: N 70*17.073 W 148*40.983
10/14/05	2005-IR-1579202	Well Pad Z, WOA, Z-Pad, Rig 4-ES, End of mud pit module. , GC2/SAT	Diesel	130.00	During pre move activities, motorman started cold start engine in mud pit module. Approximately (20) minutes later, floorman noticed diesel leaking on to gravel location from end of mud pits. Motorman then ran upstairs and shut in (2) fuel valves going to cold start generator.	115 gallons of fuel that spilled into the secondary containment was taken to Flow Station-1 for hydrocarbon recycle via vac-truck. The remaining 15 gallons of diesel that spilled onto the gravel pad was removed with the use of a Bob-Cat. The contaminated gravel was taken to Pad-3 disposal facility.	The 115 gallons of fuel that spilled into the secondary containment was taken to Flow Station-1 for hydrocarbon recycle. The contaminated gravel was taken to Pad-3 disposal facility. Oily waste generated during the clean up process was taken to an approved north slope borrough disposal facility.	
2/13/06	2006-IR-1722910	GC-3 PWX Section, GC3 Skid 402 / 414, GC3	Produced Water	130.00	Operator was in the process sampling water levels from taps on the Produced Water tank 7500. At 0230 operator opened taps on sample sink in skid 414 to fluid flow frmo taps on 7500. In the process of opening taps, operator accidently opened flush line to sump by mistake causing flush water to flow to skid 402 sump. The 402 sump pump was manually blocked in due to check valve leakage, and the pump itself had been left in off positon. Operator was not aware that flush line was opened up to the sump in 402 which eventually filled the sump and overflowed to skid floor. PCC notified operator at 0430 that there was a high level alarm in the 402 sump. Operator responded to skid 402 and found produced water on the skid floor. Operator returned sump to service and went to sample sink in skid 414 to identify cause of flow to sump. Operator found flush line valve in open position, and closed valve. Environmental Dept. was immediately contacted to repond to incident. Spill tech spill volume estimation was 150 gal's in skid 402 / 414. One gallon leaked through the skid 414 door into containment berm underneath skid. Spill techs made appropiate notification to the agencies and proceeded to clean up affected areas. Area Manager held Safety Standown with all personnel working at GC-3. All permits were closed prior to standown, and not reissued until Safety Standown meeting was complete.	The free standing liquid inside the skid was recovered using an air operated barrel vac and squeegees. The floor was then hand wiped. The material on the pad was removed using hand tools.	The free standing liquid was placed back into the facility sump system. The contaminated rags and absorbent were taken to an approved NSB oily waste dumpster. The snow and ice from the pad was taken to the Grind & Inject Facility.	
7/10/04	2004-IR-972641	Apex Gas Inj Drill Site, AGI well #7, FS1/SIP/STP	Diesel	130.00	The operator checked his wells at AGI and noticed the IA & OA pressures were almost double the max. The operateor checked the slop trailer for levels and indicated the trailer itself was very low but the secondary containment was full of what he decided was water. He grabbed a handfull and smelled it to decide it was water. When he moved the trailer the liquids in the secondary containment splashed out onto the pad. He bled all the wells one at a time and checked the level in the trailer each time when he got to the last well, he checked the level again and figure he had enough room to bleed the OA. While bleeding the OA he heard a pop outside and shut the valve to go out and check it. He found diesel running out of the trailer vent into the secondary containment and onto the ground.	SRT cleaned up by removing gravel.	Containment was emptied with a vac truck, as well as slop oil trailer, and taken to Pad 3. Gravel was picked up with bobcat and put into a dump box and carried to G&I facility.	
7/18/04	2004-IR-981459	Well Pad C, C-58 module, GC3	Produced Water	130.00	Wellbore fluids from well C-25 cut a slot in the body of the choke in Module C-58. The fluids in the line were released into the skid. The Fire & Gas system detected the problem, shut down the skid and dumped the Halon. Note: See IR 980915 for the Halon Discharge detail.	Material was removed from the skid floor using air operated barrel vacuums. Spray on walls and pipework was removed using rags and cleaning solution.	Recovered liquids have been taken to Pad 3. All of the absorbent material will be taken to an approved North Slope Borough oily waste dumpster.	
4/6/94	1994-IR-88537	Well Pad X	Crude Oil	129.99	The X-Pad drain system was used on 4/5/94 for the X-23 MI to PW swap. The drain system valves were secured after use. The operator discovered the system pressured up and relieving during his round on 4/6/94. Operators discovered that the X-23 drain valves were warm and leaking by. The 'knocker' valve at the inlet to the drain vessel was also leaking by. Leakage past the knocker valve was stopped after the operators used a 3' cheater to close the valve another half turn. 130 gallons of oil relieved outside the module. 100 gallons was contained in the liner below the relief outlet.		Contaminated snow taken to ARCO Pad 3.	A leaking valve on the drain line from X-23, inside Skid 54, caused the slop oil tank to overfill, discharging down the outside of the skid and onto the ground.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/19/06	2006-IR-2092541	GC-2, GC-2 Tank 8511, GC2/SAT	Crude Oil	126.00	T8511 Skim Tank Leak to secondary containment	Vac trucks were used to recover free-standing liquid within the containment area. The 2-gallons that leaked out of containment was removed with shovels and chipping bars. The area was then covered and heated to allow more shoveling. Mechanical recovery and flushing operations were the primary clean up methods used.Update on 12/24/2006: Approximately 155 barrels of Fire water off a hydrant was used to remove ice build up on facility pipework. Hot water was used out of a vac truck with a fire hose to melt contaminated ice in the containment pit and approximately 2235 barrels were applied. The water and spill material was then being recovered with vac trucks. Mechanical recovery was performed inside the pit using a Bobcat with trimmer, loader with rake & bucket, hand tools, jack hammers and a dump truck to transport material.Update 1/10/07: The clean up operations have been completed. No material has leaked out of the tank in last 7 days. The tank was monitored by a Spill Responder on Day shift and one Spill Responder on night shift with a vac truck on standby until the tank blinding was completed.	The recovered liquids have been placed into the GC-2 facility system. Contamintated snow and gravel has been taken to the Grind & inject facility. Contaminated ppe and absorbent material has been taken to an approved NSB oily waste dumster.	12/24/2006 Update: When tank was at leak interface, a visual estimation was agreed upon by ACS, ADEC and BP Representatives on site of a volume of approximately 3 barrels of crude oil that had been spilled into containment pit. Operations crews were unable to completely drain tank due to a high sand content plugging drain lines. Operations will move forward with alternate plans to remove remaining sand inside Tank 8511. While tank was still leaking, approximately 5050 barrels of fire water was added to skim oil inside tank using a 6" port near the lower portion of tank. The produced water, crude oil and firewater was then drained into a spicer tank. Approximately 2915 barrels of fluid have been removed from spicer tank during this operation. Note known volume of firewater added to pit during ice build up removal only (155 barrels) and known volume of hot water added from vac trucks to pit (2235 barrels) is not included in spill volume as it was in previous report, therefore it is a lower number than previously reported. Total volume of firewater added to tank (5050 barrels) while it was leaking is counted as part of spill volume in this report.1/12/07 Area that spill occured outside of secondary containment was sampled at 3 locations with 1 background sample at request of ADEC. Results from these samples were well below ADEC clean up standards. These results were faxed to ADEC on 1/24/07. Update 2/12/07. Tank is blinded and hole has been exposed. An investigation team has been organized and
4/5/05	2005-IR-1312764	GC-2, J-6, Kill flange behind well house by lateral valve., GC2/SAT	Crude Oil	126.00	At 21:00 while Operator was running his wells he noticed steam rising from the area of the lateral valve behind the well house. After investigating he found that there was a leak. He reported spill, shut in the well, isolated the line and bled it down. SRT was called to assess the spill, and make clean up plans. Cause of leak has been determined to be a 3¿ 1500 # flange just up-stream of the lateral valve (Kill Flange).	Heavy equipment and hand tools were used to delineate and clean up the spill area. Dump trucks were used to haul the contaminated snow.	Contaminated snow was taken to T-pad. Contaminated gravel was taken to the Grind and Inject facility for disposal.	Initial estimate was 3 bbls. based on what we could visibly see through 5 feet of snow. We used a D-8 Cat Dozer to clean snow away from drifts approximately 12 feet high in reserve pit and discoverd additional contamination on 4/6/05. Once we have the area fully delineated we will provide a revised volume estimation. An interim report was sent in on 04/07/05
7/5/05	2005-IR-1441988	Well Pad N, N-PAD Well 04, GC2/SAT	Seawater	126.00	Seawater was being transfered between pits by way of mud mix pump manifold when a external camlok fitting and cap started leaking. This fitiing and cap was situated on a auxiliary line which protruded outside the rig.	Rig personnel recovered free standing liquid and placed in rig slop tank. Absobent pads were used to wipe up residual water. A loader and dumptruck were used to remove the gravel on the pad area.	Contaminated absorbent pads will be taken to and approved NSB oily waste dumpster. Contaminated gravel will be taken to Pad-3. Free standing liquid was recovered by rig personnel and will be disposed of at Pad-3.	
6/13/03	2003-IR-537788	Well Pad A, A-18	Crude Oil	126.00	During a cellar de-watering job, the de-watering crew noticed a small sheen floating on top of the water. The crew notified the ACS Tech and he investigated the cellar. Between the time the de-watering crew noticed the sheen and the time the ACS Tech arrived the cellar level increased and had approximately 8" of crude floating on top of the water. The Field Team Leader notified the Well Integrity Engineer and the decision was made to shut in the well and a plan would be developed to determine the source of the crude. Initial testing on the 14th and 15th confirmed the surface casing has lost full integrity. Further evaluation will be done to ensure the well has two competent strings before the well is put back on production.	The crude oil in the well cellar was removed with a vac truck. The gravel has been removed with super sucker and hand tools.	Crude oil removed has been taken to Pad-3 for disposal. The contaminated gravel has been taken to Grind and Inject for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/30/04	2004-IR-1034325	Well Pad Z, Z pad gravel by well # 23, GC2/SAT	Drilling Mud	126.00	Following a liner cement job, the rig was circulating out contaminated mud out of the hole. When the contaminated mud showed up at the surface, the rig crew diverted the flow directly to the cuttings box where it was to be sucked up by a VECO vac truck and hauled off for disposal. The mud flow from the rig exceeded the loading capacity of the vac truck. The rig crew identified the rapidly filling tank as a problem and called for the pumps to be shut down. The pumps were stopped but approx 3 barrels of mud went out the tank overflow and landed on the gravel pad.	A supersucker was used to clean affected gravel.	The material was taken to DS 4 Grind and inject facility	
9/23/98	1998-IR-90222	Well Pad T	Produced Water	125.99	Crews performing pigging operations spilled approximately three barrels of produced water mixed with pigging returns while flowing fluids into an open top tank. The spill resulted when gas from the flowline displaced fluids in the tank. The fluids flowed over the open top of the tank and onto the gravel pad. BPX Environmental was notified and the spill was cleaned up. There were no injuries.		Material will be taken to pad 3.	Crews performing pigging operations spilled approximately three barrels of produced water during a line clean out. The line clean out was being done using gas, the personnel operating the valve to the tank opened the valve to fast creating a gas bubble
10/4/94	1994-IR-86321	Well Pad R	Seawater	125.99	At the beginning of the final reverse out phase of a CTU WO, the SW returns were sent to the MI Solids control van by the support operator in the squeeze manifold building. A visual inspection was done by the production engineer from the CTU and he noticed the spill. He immediately called the support operator who, in turn, diverted the SW returns to the slop tank. Spill occurred from breakage of a 3-inch suction hose.		The contaminated material was taken to Arco Pad 3.	During transfer operation from the squeeze unit manifold building to the solids control unit a 3" suction hose bursted causing sea water to spill onto the pad.
10/29/92	1992-IR-91560	Drill Site 11	Drilling Mud	125.99	A valve was left open in the well cellar. The cellar filled up with the water based drilling mud and ran over the Herculite and outside off the mats.		Material will be re-injected back into the well.	A valve was left open in the well cellar. The cellar filled up with the water based drilling mud and ran over the Herculite and outside off the mats.
3/10/93	1993-IR-89849	Drill Site 03	Drilling Mud	125.99	Vac truck operator was not monitoring the transfer of fluids and overflowed the mud tank along with the liner dike underneath.		Contaminants were placed into the rig's slop tank for transfer to the CC-2 ball mill for disposal.	Vac truck operator was not monitoring the transfer of fluids and overflowed the mud tank along with the liner dike underneath.
6/12/98	1998-IR-100666	Point MacIntyre	Crude Oil	125.99	"During flowback while cleaning out well, the well flowed and with combination of injected fluids, overran flowback tank."	A Loader and bobcat were used to remove contaminated gravel. - Contaminated gravel was taken to Pad 3 West Temp Pit on 6/14/98 for future remediation.		"During flowback while cleaning out well, the well flowed and with combination of injected fluids, overran flowback tank."
4/23/98	1998-IR-98737	Drill Site 02	Crude Oil	125.99	"While bleeding down fluid from well, bleed tank overflowed onto snow covered gravel pad and uncleaned reserve pit."	"Vacuumed up free standing crude to go to FS1 for recycle. Distributed snow on top of spill for absorbant, and used loader, scratcher, and autocar with dump box to scrape up contaminated snow and gravel. Contaminated snow was taken to pad 3 east pit a		"While bleeding down fluid from well, bleed tank overflowed onto snow covered gravel pad and uncleaned reserve pit."
4/20/92	1992-IR-97692	Flow Station 2	Crude Oil	125.99	"During scheduled shutdown, module sump was overfilled and the material leaked through the floor soffet."	Metis/Cleanup		"During scheduled shutdown, module sump was overfilled and the material leaked through the floor soffet."
7/10/92	1992-IR-88224	GC-1 Pad	Seawater	125.99	The ball check for the truck vent system stuck/failed and allowed truck to overfill.	The area was flooded with 12 bbls of fresh water to reduce salinity to background levels.	None required.	The tank on a vac truck overfilled because the fluid level indicator was not operating properly.
6/22/93	1993-IR-97979	Drill Site 03	Seawater	125.99	Pressure relief valved released material into the relief tank causing it to overflow.	Metis/Cleanup		Pressure relief valved released material into the relief tank causing it to overflow.
12/4/91	1991-IR-100788	Lisburne Production Center	Produced Water	125.99	Hose from circulating system to dirty water tank ruptured.	YES -		Hose from circulating system to dirty water tank ruptured.
9/28/91	1991-IR-97575	Drill Site 09	Crude Oil	125.99	Excess pressure caused material to spray out of the tank.	YES -		Excess pressure caused material to spray out of the tank.
1/2/90	1990-IR-96951	J Pad	Methanol	125.99	A faulty sight glass caused material to overflow tanker.	YES -		A faulty sight glass caused material to overflow tanker.
6/18/90	1990-IR-96313	Central Gas Facility	Seawater	125.99	400 bbl tank was discovered to have a small leak in it	YES -		400 bbl tank was discovered to have a small leak in it

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/1/92	1992-IR-97834	Drill Site 12	Seawater	125.99	Air from blowing down hoses forced water out the tank.	YES -		Air from blowing down hoses forced water out the tank.
7/5/90	1990-IR-97032	Seawater Injection Plant	Seawater	125.99	Disconnected hose without closing valve.	YES -		Disconnected hose without closing valve.
9/5/93	1993-IR-89057	Well Pad N	Crude Oil	125.99	N-3 flowline developed leak spilling approximately five barrels process fluid onto the tundra and water. Spill carried for approximately 100 yards with sheen extending to about 300 yards. The SRT was called to the scene and dams were put in place to prevent migration. Spill is in the process of being cleaned up. 'N' pad was shutdown to isolate leaking flowline. Flowline has been blinded and pad put back in service.		Solids were taken to Pad 3. Liquids taken to T-pad for temporary storage. Liquids will be disposed of at Pad-3.	Hole in flow line due to corrosion.
2/21/91	1991-IR-97630	Drill Site 07	Crude Oil	125.99	Tank overfilled.	YES -		Tank overfilled.
9/26/00	2000-IR-95435	Flow Station 1	Methanol	125.99	Crews working on well NGI-4 bled off the well into the blow down common line. Well was shut in when it was noticed that they were getting liquids. Liquids escaped down the common line to the unlined blowdown pit when the DSO bled gas to the line during state testing of well safety systems. The Wells Group is responsible for the 126 gallons of methanol that was spilled. The Production Department has had the remaining 700 gallons of seawater/oil attributed to them.	Water removed, hot water flush	Pad 3	Spill was at NGI
11/24/89	1989-IR-100861	Lisburne Production Center, Not specified	Crude Oil	125.99	Overfilled tanker caused by blockage in vent line.	Not specified	Not specified	Not specified
6/19/89	1989-IR-96682	Drill Site 14, Not specified	Diesel	125.99	Valve opened while pump in gear.	Not specified	Not specified	Not specified
10/16/89	1989-IR-96791	Drill Site 03, Not specified	Seawater	125.99	Tiger Tank overflowed.	Not specified	Not specified	Not specified
1/13/89	1989-IR-96642	Drill Site 03, Not specified	Seawater	125.99	Faulty valve leaked	Not specified	Not specified	Not specified
9/22/87	1987-IR-96361	Drill Site 05, Not specified	Diesel	125.99	Not fully closed va	Not specified	Not specified	Not specified
7/6/86	1986-IR-95960	Drill Site 16, Not specified	Diesel	125.99	Overflow from truck	Not specified	Not specified	Not specified
9/9/86	1986-IR-96157	Flow Station 1, Not specified	Crude Oil	125.99	Truck connection lk	Not specified	Not specified	Not specified
10/14/87	1987-IR-100702	Lisburne Production Center, Not specified	Crude Oil	125.99	Vent leak from truc	Not specified	Not specified	Not specified
9/28/87	1987-IR-100701	Not specified	Crude Oil	125.99	Wrong valve closed	Not specified	Not specified	Not specified
10/13/87	1987-IR-96372	Drill Site 11, Not specified	Crude Oil	125.99	Leak in pump equip	Not specified	Not specified	Not specified
10/13/88	1988-IR-96529	Flow Station 2, Not specified	Crude Oil	125.99	Pigging hatch leak	Not specified	Not specified	Not specified
12/18/83	1983-IR-96134	Well Pad, Roads, Not specified	Crude Oil	125.99	Vent system opened	Not specified	Not specified	Not specified
3/4/82	1982-IR-96099	Drill Site 05, Not specified	Crude Oil	125.99	Sump overfilled	Not specified	Not specified	Not specified
11/18/88	1988-IR-96275	Drill Site 05, Not specified	Diesel	125.99	Steam coil leak	Not specified	Not specified	Not specified
12/30/80	1980-IR-96035	Drill Site 12, Not specified	Crude Oil	125.99	Ice broke valve	Not specified	Not specified	Not specified
11/11/86	1986-IR-96168	Flowstation Common Lines, Not specified	Crude Oil	125.99	Cut oil line	Not specified	Not specified	Not specified
2/2/86	1986-IR-100690	Not specified	Crude Oil	125.99	Gasket leak	Not specified	Not specified	Not specified
6/19/80	1980-IR-96031	Drill Site 02, Not specified	Crude Oil	125.99	Unknown	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/8/96	1996-IR-91598	Well Pad E	Produced Water	125.99	An inner annulus pressure test was being preformed by HB&R for the upcoming NRWO CTU cement squeeze work on well E-16. A Peak vac truck was hooked up feeding produced water to the pump truck. An air actuated valve inside the pump truck failed to close on the inlet side resulting in the PW that was being pumped to communicate with the inside diesel tank of HB&R resulting in the tank overflowing which created a 5 bbl diesel / PW spill. The fluid was contained on the pad and the environmental group was immediately notified and the spill was cleaned up. The spill was estimated to be 3 bbls of produced water and 2 bbls of diesel.		The non-exempt gravel is being sampled for DRO/TCLP (benzene). UPDATE: The gravel passed testing and is non-hazardous. It was taken to Arco Pad 3 for disposal.	
8/14/00	2000-IR-95269	Flow Station 1	Crude Oil	125.99	Approximately 3 barrels of crude oil spilled from the front hatch of a tanker being filled at the crude oil loading facility at Flow Station 1. The spill was promptly reported and the material was cleaned up for disposal. Following inspection of the hatchway, it was discovered that a sealing ring had not been re-installed following the opening of the vessel for cleaning and inspection. A pre-use inspection performed prior to returning the tanker to service failed to detect the missing seal.	The was cleaned up by the Spill Response Team.	Pad 3 West Temporary Gravel Pit	
5/26/01	2001-IR-101475	Seawater Injection Plant	Produced Water	125.00	At approximately 15:15 an operator making rounds noticed fluid dripping from the bottom flange of a tie-in valve off the cretaceous injection line at SIP. The tie-in valve is used to connect injection piping used for summer de-watering. Water cuts were made at facility and cretaceous injection line was isolated and safed out for repair.	Recovered with loader, hand tools and super sucker.	Materials taken to Pad 3 for disposal	This information is being provided to ADEC per 18 AAC 75.300.
5/8/03	2003-IR-505044	Drill Site 14, on gravel pad in front of well 14-23	Methanol/ Water	125.00	Pumping crew conducted a pre-job safety meeting and a risk assessment review prior to pumping an acid stimulation job on well 14-23. All personnel on location including the company man had signed the safety-meeting roster. The crew had primed up pumps with 2% KCl water from a 400 bbl upright tank. Then swapped to methanol for a 5 bbl spear and pressure test. Just prior to pressure testing, fluid was seen spilling out the methanol vent line. All valves were closed to isolate fluids and stop the release.	Recovered material with a loader and placed into open top tank for melting and beneficial reuse.	Recovered fluids from gravel wash was beneficially reused and the washed gravel was taken to Pad 3 for disposal	Immediate notifications made to the appropriate agencies.
3/23/92	1992-IR-87256	Well Pad N	Hydrochloric Acid (HCL)	125.00	Tank overfilled because of valve stuck in open position. All contaminants were hand shoveled into loader bucket. HCL neutralized with baking soda. All contaminants taken to Haliburton acid tank. Valves will be replaced.		All contaminants taken to Haliburton acid tank.	Tank overfilled because of valve stuck in open position.
6/24/94	1994-IR-86301	GC-1 Pad	Seawater	124.99	Peak truck K-119 was loading seawater (for PE Dept) onto his truck. Tank level indicator was pointing between 1/2 and 3/4 full when water began running out of the vent/overflow. Approximately 125 gallons spilled. Area contaminated does have a spill containment liner. VMS reported that tank level indicator was out of adjustment.		Contaminated gravel taken to Arco Pad 3.	While taking on a load of seawater at GC-1, between skids 302 & 303, the Peak tanker #K119 over filled. The gauge on the tanker failed as it read only 3/4 full.
4/21/05	2005-IR-1333270	Lisburne Production Center, MODULE 4931, GPMA	TEG	122.00	Vibration break on back side of ferule on 1/2" tubing line downstream of TEG Pump 1521.	Initial clean up consisted of sorbents and air barrel vacuum, then Vac Truck called in and continued clean up by using firewater and Vac Truck.	Pad 3	Agencies were notified of release.
4/5/04	2004-IR-858220	COTU Facility, COTU facility, FS2/COTU	Diesel	120.00	Bulk fuel truck operator underestimated the amount of fuel left in tanker # 12-09-1704. Before he uploaded more fuel into the tank, he manually opened the hatch to make a visual inspection. His visual inspection was underestimated. This underestimation along with the amount of fuel he thought it would take for a full load caused an overflow. Standard procedure calls for the operator to visually watch the last 500 gallons being loaded. With his underestimation, he never had time to watch this process before the overflow occured.	The contaminated snow was recovered with a loader and bucket and placed into a snow melt tank.	The material was sent to GC-2 for hydrocarbon recycle	A spill review meeting was held with BP Environmental, Conam, and COTU to discuss the the action items and preventative measures above.
6/11/05	2005-IR-1409734	Gas Station, Prudhoe Bay, WOA fuel island., Non Process Area	Diesel	120.00	Several stains were noticed in the gravel,several feet from the WOA fueling station which were later determined to be diesel fuel. Upon further investigation by the WOA Spill Technician, a buried pipe collection sump contained approximately ten gallons of diesel fuel. Over the course of two days, 30 to 40 gallons of fuel had been recovered. This sump is above a burried protective linner however the stains were at the edge of this linner and the concern is that the diesel may have migrated beyond the containment. At this time the source of the spill has not been determined but is thought to be from a mid January(17?), 2005 valve failure which was reported and at that time believed to be under 42 gallons in vollume. Further investigation is on going at this time to determine the vollume and source of the diesel fuel seepage.	The gravel in the area of the fuel island was removed using heavy equipment.	All the recovered fluids at this point will be taken to GC-2 for hydrocarbon recycle. The gravel was taken to AIC for remediation	A verbal notification was given on 06-12-05 at approximately 1715 hours by Jim Short. An interim report was sent 6/11/05

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/17/06	2006-IR-2091091	GC-3 LPS Section, GC3 Skid 450 Air Handler MEG System, GC3	MEG	120.00	At approximately 1545, an area operator was notified by a contractor working in the area that there was MEG on the floor in skid 450. The operator was immediately able to locate the source of the leak, close an isolation valve, and stop any further leaking. The source of the leak was a 1/4" swagelock tubing cap that was missing from the pipe nipple. This 1/4" access port is located on the balance valve and is used for inserting probes to conduct air balance tests on the associated air handler. Since there was absolutely no damage to the threads, it appears the cap was not properely tightened during initial installation and eventually worked its way loose due to the local vibration from the air handler as well as the normal thermo cycles in the MEG system. It should be noted that when the area operator received the call, he was in the middle of checking out a low level alarm in the MEG expansion tank which could be indicative of a leak. The initial estimate by the spill tech was 100 gallons. It was discovered during clean up operations that the spill size was actually 120 gallons.	The MEG glycol was cleaned up using hand tools, absorbents, and Vac-U-Max drum vaccums.	The glycol was placed back into the facility sump for EOR. The absorbent was taken to an NSB approved solid waste facility.	N 70* 17.058' W 148* 40.963' Please provide Amanda Stark with a copy of this report. As requested on 12-18-06.
3/14/04	2004-IR-833610	Seawater Injection Plant, Line is located between module 4930 and 4951 at the roof level., FS1/SIP/STP	Seawater	120.00	SIP operator during a scheduled shut down discovered seawater dripping out of the 16" insulated displacement line to the Sea Water Inlet Tank. This line is at about the 36' level on the tank. Lowered the level in the SWIT below the nozzle the line is tied to and awaiting scaffolding to further evaluate reason for leakage.	The seawater on the ground will be recovered using hack hammers and hand tools. Once the area on the ground is clean, we will place a fast tank under the sewater ice that is on the bulilding to collect the material as it melts.	The frozen Seawater ice was taken to T-pad and the collected material in the fast tank set up under the spill during the melting season was sent to Pad-3.	Immediate notifications were made upon discovering the spill.
7/19/04	2004-IR-981777	Well Pad H, H-07 wellhouse, GC2/SAT	Crude Oil	120.00	While making his rounds, the pad operator found the grease zert on the surface safety valve actuator spraying oil and produced water into the well cellar. The pad operator shut the well in and notified x5700.	Workers used a Vac truck to recover the contaminated liquids. Then used sorbents and rags to wipe clean the wellhead, cellar box and wellhouse. Minimal gravel was removed with shovels.	The contaminated liquids have been taken to Pad-3 for disposal and the gravel will be taken to the grind and inject facility.	The initial notification for the spill occured on 7/19/04.
11/2/07	2007-IR-2455205	Central Gas Facility, CGF, Module 4957, CGF/CCP	Hydraulic Fluid	120.00	Area operator was conducting a normal shut down procedure on the Booster 3 Turbine from the local control room in Module 4957 at 1220am for a routine water wash. After verifying on the control panel that the turbine was shutting down, the operator performed a module walk-thru. Upon entering Module 4957, the operator smelled hydraulic fluid and identified a leak coming from F41V, the discharge ESD valve for the Shafer valve actuator to the 48 inch ball valve on the inlet feed gas line. The operator then went to the 2nd level of the module where F41V is located and isolated the hydraulic supply line to the valve. Investigation revealed that cause of the hydraulic leak was a failed schedule 160, 3/4" close nipple hydraulic fitting located between F41V and the valve actuator. The Shafer valve actuator, which included F41V, was received new and fully assembled from the manufacturer and originally installed in June 2007.	Absorbent's, barrel vac's, and a Vac truck were used to remove fluid's from Mod.	Absorbent's went to oily waste, and fluid's were sent to GC-2 for Hydrocarbon recycle.	
1/13/05	2005-IR-1208624	Seawater Treatment Plant, 4911, Lower Fuel Gas Room, FS1/SIP/STP	MEG	120.00	While performing a fire panel PM, the fuel gas ESD valve unexpectedly shut in, causing the fired heaters to go down. The cooling of the glycol caused the metal plates in the heat exchanger to contract and leak glycol onto the floor.	Vacuumed up glycol using shop vac and chemical cart. Recovered glycol by recycling into glycol recycle sump tank, 19404.	Recovered glycol will be reused. Sorbents will be disposed as oily waste	
1/27/96	1996-IR-91026	GC-3 PWX Section	Crude Oil	119.99	At approximately 04:43 hrs the PWX operator discovered oil blowing from the piperack in skid 404. This turned out to be a senseing line on the sulzer suction header, which had a swedge lock fitting that was not installed properly and had come lose, spraying approximately 86 gallons in the skid, some of the oil ran along the walls and ended up outside on the gravel pad. Enviormental personel where contacted to handle the clean-up.		The free liquid that was collected with the air vacuum was taken to GC1 for re-cycle. The contaminated Sorbents were bagged and taken to NSB oily waste dumpster. The contaminated snow was taken to Santa Fe Pad and placed into the storage bins.	A coupler failed on the 1/2 " stainless steel tubing for the sensing line on the suction side of the sulzer pumps in skid 404. This allowed crude to spray onto the wall and floor of the skid. Approximately 2 gallons of crude leaked out of the skid onto

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/10/95	1995-IR-86560	Well Pad E	Seawater	119.99	The crew was displacing well # E-35 with seawater. This procedure is done with the aid of a transfer pump from outside tanks to the mud pump. At the time of the incident, they were transfering fluid when a 3" hose seperated at the fitting, spilling approx. 120 gals of seawater on the pad. The derrickhand monitoring the transfer immediately shut the pump down and contacted his supervisor. Cleanup operations were implemented and the NS environmental dept was notified. The Environmental dept. responded and filed the enclosed NS spill report. The hose was replaced and displacement procedures resumed. NOTE: A "Fluid Transfer Permit" was filed before displacement procedures began. The well had already taken at least 100 bls when the hose blew. The standing fluid was recovered and all contaminated gravel was removed and properly disposed. No water or tundra was affected.		The non-hazardous gravel & flush water picked up by the guzzler was taken to T Pad. The standing seawater picked up with the pump was pumped back into the injection holding tank and reused.	A 3 inch brine hose between the transfer pump and the rig parted from the fitting during transfer of seawater to me rig.
4/15/90	1990-IR-96970	COTU Facility	Diesel	119.99	Failure to dicsconnect hose prior to driving away	YES -		Failure to dicsconnect hose prior to driving away
1/29/92	1992-IR-97810	Well Pad, Roads	Methanol	119.99	Methanol surge drum ruptured during testing.	YES -		Methanol surge drum ruptured during testing.
7/3/06	2006-IR-1890529	GC-2, GC-2 Skim Tanks., GC2/SAT	Diesel	116.00	Operator discovered that a portable heater was leaking diesel. Got containment under it and reported spill. Field equipment services is investigating cause of leak.	The contaminated gravel was cleaned up with IT loader,Dump truck and hand tools. The fluid in the secondary containment was hand pumped back into the heaters fuel tank.	Contaminaated gravel was taken to pad 3. Free standing liquids were reused in heater unit.	
8/8/07	2007-IR-2367789	GC-2, Outside Skid 21., GC2/SAT	Diesel	115.00	The automatic system was put in service at 5:30 PM and the day tank over flowed 5 hrs. later. no alarms were annunciated and at this time the cause in unknown.	A vac truck was used to remove the standing liquids, water was used to flush contaminated gravel.	The fluids were sent back through the GC-2 system for hydrocarbon recycle.	The automatic system was put in service at 5:30 PM and the day tank over flowed 5 hrs. later. no alarms were annunciated and at this time the cause in unknown.
1/14/02	2002-IR-153476	Well Pad F, F-48 S-riser	Crude Oil	115.00	The outer annulus of well F-39 was prepared for a bleed operation, by the Downhole Diagnostic Team, by connecting it to the S-riser of F-48 via a high pressure hose, hardline, ball and check valves. The bleed operation started at 17:45 on 1/14/02 and appeared to be proceeding normally for the first 14 minutes. There were no unusual sounds or vibrations and the pressure was decreasing as expected. After approximately 14 minutes, the Wells Group Operator heard a small leak and started to walk the hardline from F-39 to F-48 to locate it. As he entered the F-48 wellhouse, the leak escalated to a major release. The wireline doors on the top of the wellhouse were blown open by the force of the release and oil, water and gas was sprayed inside the wellhouse and on to the pad and tundra to the East of F-pad, blown towards T-pad by the wind. (See Attachment.)	Hand tools, snowmachines, snowblowers, loaders and dump trucks were used to remove contaminated snow from tundra. The well house was cleaned using a pressure washer and super sucker to remove contaminated gravel from cellar and surrounding well house gravel.	The snow was taken to pad 3 disposal facility.	The top of the well house will be monitored during break up months and recleaned during summer conditions.
3/4/99	1999-IR-93499	Drill Site 14	Seawater	114.99	While circulating the brine tanks to prevent freezing the isolation valve between tank #1 (already full with high level alarm swtiched off) and tank #2 which was being circulated - leaked. Fluid passed into tank#1 causing an overflow of 116 gallons of which 84 gallons was spilled inside the pit room , contained and cleaned up. The remainder 32 gallons went onto the herculite under the Pit module , flowed to a low point on the secondary cotainment and spilled 5 gallons seawater onto pad.		Disposed of at ARCO Pad 3.	SSD Drilling spill on the EOA.
1/29/98	1998-IR-90396	Well Pad D	Seawater	113.99	Nordic 1 was pumping into the cuttings tank. The tank over flowed spilling approximately 126 gallons of 10% drilling mud and 90% seawater mixture onto the pad.		Class II material will be taken to CC2A for disposal.	Nordic 1 was pumping into the wier of the cuttings tank. The tank over flowed spilling approximately 126 gallons of 10% drilling mud and 90% seawater mixture onto the pad.
12/21/02	2002-IR-400607	Drill Site 11, Prudoe Bay Drill Site 11 twin wells 11-31/32	Corrosion Inhibitor	112.00	Drill Site 11, well 31/32, chemical injection branch line fitting failed due to stess at connection to main trunk line releasing chemical to the pit.	Recovered material with hand tools and loader. Material placed into dump box for disposal	174 cubic yards of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 12/21/02.
5/27/00	2000-IR-98358	Drill Site 18	Fresh Water	111.99	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).	The spill response team was called out. Sorbents were used on the freestanding liquids. A loader was used to clean up the pad and accessible areas of the pit. Shovels and brooms were used to cleanup misted areas the loader could not reach.	The material was disposed of at the pad 3 east snow pit.	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).
2/5/05	2005-IR-1232400	Seawater Treatment Plant, Module 4911, Lower Fuel Gas Room, FS1/SIP/STP	MEG	110.00	While reducing production rates by half due to injection pump shutdown at SIP, fired heaters shut down on overtemp. The cooling of the heat medium fluid caused the metal plates in the heat exchanger to contract and leak glycol on the floor.	Vacuumed up glycol using shop vac and chemical cart. Recovered glycol by recycling into glycol recycle sump tank, 19404.	Recovered glycol will be reused. Sorbents will be disposed as oily waste.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/5/91	1991-IR-97487	Drill Site 11	Seawater	109.99	Relief valved lifted off squeeze manifold due to pressure.	YES -		Relief valved lifted off squeeze manifold due to pressure.
8/20/00	2000-IR-95302	GC-1 PWX Section	Crude Oil	109.99	PWX/OIL Operator was making his rounds and walked into Sk-407. He found oil on the floor and he continue to survey the area until he saw where the source was coming from. He immediately called SK -7 to turn the slop oil pump off. His investigation found the pressure gauge off the discharge piping of the pump had fail. Lead Tech called the enviro techs and their estimate was 110 gallons of oil on the floor.	Crude was sucked up with air operated drum vaccum and floors and pump wiped down with absorbent.	Crude will be recycled at the GC-1 facility.	Initial report was called in to agencies.
5/4/05	2005-IR-1353874	Well Pad L, SE corner on L-Pad, GC2/SAT	Diesel	109.00	Around 5:00 pm Wednesday on the 4th of May, a Norcon employee smelled a strong scent of diesel while walking from the electrical skid. He discovered the Kubota generator had a fitting that was spraying Diesel from the fuel system. The Kubota generator is the main power source for the Tioga heater unit. The employee shut the equipment off and contacted the Pad operator and safety. The heater had 4X5 containment underneath; 4 gallons had dispersed while under pressure and misted the ground surface, the rest was inside the compartment and caught by the built in containment. The equipment was delivered and maintained by the GPB equipment shop. This type of malfunction can not be detected by a visual inspection which makes it hard to detect an unseen crack or imperfection in the machinery. This BP piece of equipment was purchased at the beginning of the year and has barely been broken in mechanically. The total amount of diesel recovered was 105 gallons.	The contaminated snow was shoveled into oily waste bags for transportation. Heater was wiped down with abosbent pads. The liquid in secondary containment was pumped into drums for recycle.	Contamiated absorbent pads were taken to an approved NSB oily waste dumpster. The contaminated snow will be melted down and recycled along with all of the liquids recovered from the secondary containment on the heater.	
5/27/01	2001-IR-101476	GC-1 Oil Section	Crude Oil	105.00	A mobile bleed tank overflowed into containment and onto the gravel pad outside skid 14. The bank had been shut down and safed out for maintenance on the 3rd stage separator. A bleed hose off the top of the vessel was routed to the bleed tank as part of the process isolation. Apparently, process from transit line pressure leaked back through the shipping pump (closed) discharge valve, through the min. flow recycle valve back into the separator. Consequently, the vessel overfilled running oil out the bleed hose to the tank outside.	All liquids in tank and containment were sucked up with a vac truck. Contaminated snow and gravel was cleaned up using loader,dumptruck, and hand tools. Bleed trailer was wiped down with absorbent pads then taken to wash bay for final cleaning.	Crude oil was taken to GC-2 for recycle. Contaminated snow was taken to Pad-3 for disposal. Absorbent was placed in an approved oily waste dumpster.	This inforation if being provide to fulfill the spill notification requirements under 18 ACC 75.300
12/28/93	1993-IR-86557	Well Pad U	Seawater	104.99	During seawater tank filling operations, the operator of vac truck turned his attention elsewhere and overfilled the water tank. A 966 loader and end dump were used to scrape up contaminated snow and ice and transported to Arco Pad 3. The driver was counseled. Contract company was charged with preparing recommendations to prevent similar incidents in the future.		Snow and ice contaminated with seawater was taken to Arco Pad 3.	During seawater tank filling operations, contract operator of vac truck turned his attention elsewhere and overfilled the water tank. Between 2 and 3 barrels of seawater poured out onto pad.
4/17/93	1993-IR-89853	Drill Site 03	Drilling Mud	104.99	One inch blow down airline was left open on safety relief mud line, allowing discharge of drilling mud onto pad.		Materials hauled to CC-2 pad for down-hole injection at Ball Mill.	One inch blow down airline was left open on safety relief mud line, allowing discharge of drilling mud onto pad.
4/1/88	1988-IR-96276	Drill Site 03, Not specified	Diesel	104.99	Overflow to pad	Not specified	Not specified	Not specified
6/3/05	2005-IR-1399773	Drill Site 04, DS4-40 conductor pipe., FS2/COTU	Crude Oil	100.00	DSO discovered crude / wellbore fluids dripping from conductor pipe of DS4-40. Well Integrity team bled well down and installed secondary containment around wellhead. Surrounding gravel was excavated and approximately 560 cu yds was disposed at the Grind and Inject facility. Historical contamination presumably from prior release(s) was identified layered in the pad during the excavation. Closure of this particular release was negotiated with ADEC noting that historical contamination remained in the pad. This site is expected to be managed by ADEC Contaminated Sites Division and BP Remediation Management for future assessment and clean up plans.	Fluids were initially recovered with a vac truck. A backhoe and supersuckers were used to excavate contaminated gravel from the site.	Recovered fluids were taken to Pad-3 for disposal. Contaminated gravel was disposed at the Grind and Inject facility.	Fingerprint samples were obtained from the 'fresh' release area around the wellhead and compared to the walls of the excavation in an attempt to identify existing, historical contamination in the pad, separate from the release reported in June, 2005. Results of fingerprint analyses indicated that released material was a mixture of wellbore fluids including primarily diesel and crude and that the release around the wellhead was significantly different from the material at the edge of the excavation. Release volumes were estimated based on approximately 150 cu yds of heavily contaminated soil (~3 gal / cu yd) removed from the site and an additional estimated 50 gal dispersed throughout the release site. All volumes are estimated only.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/30/04	2004-IR-995856	Flow Station 3, EOA - FS3 Module 4904, FS3	Lube Oil	100.00	1801 G.G. developed L.O. leak from yet undetermined source location. Amount released (~100 gallons) was contained in secondary containment area. Unit was kept on line by adding additional L.O. while standby unit (1802 Turbine Compressor Train) was being prepared for startup prior to shutting down 1801 Turbine Compressor Train.	The majority of the Leaked/Spilled material was recovered via barrel vacuum (~80 gallons) which was recycled back into Oil production trains via floor sump and Open Hydrocarbon Drain System. The remaining material (~20 gallons) was cleaned up with Absorbant Pads and disposed of via Oily Waste Disposal.	Floor Sump, Open H.C. Drain System (~80 gallons), and Oily Waste Disposal (~20 gallons).	NOTE: This is the Final Report. The source of the material released was1801 Gas Geneator Lubricating System. However, the point of release was not found. The cause of this spill is still unknown. The system is being monitored on a daily basis.
7/6/03	2003-IR-560829	N2 Plant, Nitrogen Plant	Propylene Glycol	100.00	While making his daily rounds at the nitrogen plant, the operator discovered that a valve in the glycol circulation loop had failed, releasing glycol into the skid. Some of the glycol dripped through floor penetrations onto the gravel pad. The plant was shut down and the system isolated. The Spill Hotline, x5700, PCC, OTL and Lead Tech were notified.	Mop up glycol inside skid with sorbent and dig up gravel under skid using bobcat and hand tools.	Materials will be disposed of at Pad 3.	Further investigation revealed the spill volume to be greater than initially estimated. Based on fluids/materials recovered and the amount of glycol required to refill the tank, 100 gallons is thought to have been spilled.
9/27/05	2005-IR-1557910	Well Pad Z, GPB Well Z-02A -- Nabors Workover Rig 4ES, GC2/SAT	Drilling Mud	100.00	During milling operations, rig flowline carrying returns back to pit system became partially plugged with milling cuttings and caused bell nipple to overflow into cellar area and onto rig mats. Approx. 75 gallons of Flo-pro drilling fluids were released.	Drilling mud on rig mats squeegee'd into well cellar box and vacced up into vac truck. Rig BOPE area washed down and cleaned up. Contaminated gravel was removed from the well cellar on 10/15/05 when rig moved off well.	Drilling mud liquids have been taken to Pad-3. Contaminated gravel has been taken to Pad-3.	Due to the rig currently being on the well, clean up of gravel in cellar is not possible and will be completed when the rig moves in an estimated 7-days. This action item was completed on 10/15/05.
2/1/02	2002-IR-161579	Central Compressor Plant, Mod. 4907, CCP	Lube Oil	100.00	While pressuring up 1811 turbine/compressor after major overhaul, sweet seal oil system overflowed through vent to ground. Mechanical failure, suspect seal.	Loader, bucket, dump box , and shovels were used to remove contaminated material.	Contaminated materail was brought to Pad 3 for disposal.	Spill was first reported as 140 galllons, but after further investgation only 100 gallons were spilled. Containment area will checked in spring for any visable sheen.
2/4/06	2006-IR-1712775	Drill Site 11, DS-11, NORTH END OF THE MANIFOLD BUILDING ON THE GRAVEL PAD., FS2/COTU	Seawater	100.00	DS11 Seawater spill occurred while performing safe-out pursuant to test header repair. Volume of seawater containing trace crude and produced water released to pad estimated to be approximately 100 gallons, no release to tundra or waters of the United States. Spill occurred when temporary hose disconnected from temporary tank as a result of ice plug induced slugging.	The frozen, contaminated material was jackhammered into pieces and collected using hand tools for disposal.	Contaminated snow and ice with some gravel / soil from the pad will be disposed at the Grind and Inject facility in GPB.	Note that a trace of crude and produced water was present in the seawater as a result of passing through the manifold system at DS11 prior to intended injection.
9/3/06	2006-IR-1963142	PBOC, PBOC MODULE 08-4910 (GYM), Non Process Area	MEG	100.00	AT 7:40AM I WAS PAGED BY PBOC SECURITY AND NOTIFIED THAT SOMEONE REPORTED GLYCOL LEAKING OUT OF THE UNDERSIDE OF THE BUILDING AT THE PBOC GYM. I IMMEDIATLEY WENT TO THE LOCATION TO LOOK AT THE SITUATION AND CONFIRMED THAT GLYCOL WAS DRIPPING OUT ONTO THE WATER COVERED PAD UNDER THE MODULE. I CALLED THE PBOC MAINTENANCE LEAD TECH. HE WAS JUST COMING FROM HIS MORNING BOILER CHECK WHERE HE NOTED THAT THE BOILER PRESSURE WAS DOWN. WE WENT TO THE SOFFIT SPACE UNDER THE GYM AND FOUND A VICTAULIC FITTING THAT WAS LEAKING GLYCOL. WE IMMEDIATLY ISOLATED THE LEAK BY SHUTTING VALVES. BUCKETS AND ABSORBANTS WERE SET ABOUT. I SHUT OFF THE BOILERS. AT 7:45 I CALLED THE SPILL HOTLINE AND REPORTED THE SPILL. SRT WAS NOTIFIED AND I NOTIFIED THE BP TEAM LEAD. 9/4- REPLACED ALL 8 GASKETS IN THE SUPPLY AND RETURN LINE FITTINGS TO THE AIR HANDLING UNIT AND PUT THE LINE BACK IN SERVICE.	Vac- truck was used to remove standing fluid's, and flushing fluid's.	All fluid's were brought to Pad 3 for disposal.	All agencies were notified of release. Samples of the area have been taken, and we are awiting results to determin if additional cleanup is needed.
9/8/02	2002-IR-307573	U-17, Pad 9 Northeast corner	Diesel	100.00	At 23:30 diesel fuel was discovered on the U9 pad. The source was traced to the “site glass” tube on charge pump #90-315. The pump skid is designed with adequate containment of contents of the fuel tank. The tube separated from the swedge fitting at the top of the tube allowing the tube to bend over at the bottom fall outside the containment. Releasing some residual fuel onto the pad. A Significant amount of rain fell during the 24 hour period prior to the discover of the released material, the storm water discharged a quantity of the released fuel off of the pad. The charge pump skid was demobilized for the season in July and placed in storage on pad U9. The area of the pump was visited within 24 hours prior to the discovery of the release by an employee and no sign of released fuel was observed.	Recovered material with loader and placed into dump box for disposal.	77cubic yards of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 9/8/02.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/12/01	2001-IR-95853	Bulk Fuel Facility	Diesel	100.00	The driver of a 5000 gallon fuel truck (32-108) was loading the tank with diesel at 0330 am at the BOC bulk diesel fuel island. The driver started the fueling process and was monitoring the truck. The driver climbed up the ladder to the fuel truck to visually check the progress of the load. There is a remote shutoff at the island for the fuel pump and the driver had that with him. When he determined that he had enough fuel he activated the remote shutoff for the fuel pump. The shutoff failed to shutdown the pump. The driver descended the ladder to the manual shut off and shut the pump down. Before he could get the pump shut off 100 gallons of diesel fuel had overflowed from the tanker onto the ramp.	Grader, loader, hand tools were used to clean affected gravel. Sorbents were used to clean up pooled liquids.	Gravel was taken to pad 3 and sorbents were wrung out with wringer and then disposed in NSB oily waste dumpster.	The safety switch was checked by electricans and is operational.
5/2/04	2004-IR-887723	Well Pad Z, Z-Pad P-504A Booster Pump Well, GC2/SAT	Seawater	100.00	Filled Mud Pits with Seawater for Rig Audit. Seawater Leaked out of #2 Pit due to crack in bottom of pit.	Used Vac Truck to Collect Standing Water. A loader was used to removed remaining ice from area.	The recovered liquid was sent in a Vac Truck to Pad 3. The snow and Ice was taken to T-pad storage facility.	This is an update to the iterim sent 5/3/04 @ 9:25 am.
4/3/03	2003-IR-476315	Drill Site 13, DS-13, Middle of the pad by well 13.	Seawater	100.00	Frozen ice plug in valve streched bolt and caused leak when it was thawed	Material was cleaned up using a loader and dump box.	Material was taken to T-pad for disposal.	Immediate notifications were made to the proper agencies.
5/6/02	2002-IR-217822	Surfcoat Pad, Surfcoat injection pad	Crude Oil	100.00	The sight glass on the slop tank failed releasing approximately 100 gallons, from the tank to the pad. The Well Integrity group last used the slope tank on April 17-18. The site glass on this tank is clear plastic hose. The valve that isolates the sight glass from the tank was found to be in the open position allowing the contents of the tank to drain onto the gravel pad when the sight glass failed.	Recovered material with loader and placed into dump box for disposal.	56 cu. yrds of material taken to pad 3 for disposal.	Immediate notifications made to appropriate agencies.
6/13/06	2006-IR-1869684	Main Construction Camp (MCC), MCC KITCHEN SOFFIT SPACE, Non Process Area	Sewage	100.00	A CAST IRON DRAINAGE FITTING CORRODED CAUSING WATER TO LEAK OUT INTO THE SOFFIT SPACE UNDER THE KITCHEN. THE FITTING WAS REPLACED AND THE SYSTEM PUT BACK INTO SERVICE.	Use a vac truck to recover spilled material. The spill area will be treated with lime.	Recovered spill material will be disposed of in a class 1 injection well.	ADEC Waste water was notified of release.
8/3/07	2007-IR-2359034	GC-2, Q-07, GC2/SAT	Methanol/ Diesel (50/50)	100.00	During a routine HSE walk through on Q-pad, the operator found a leak in the snow shelter. It was determined to be freeze protect methanol leaking from an Otis p-pilot seal. The well is a LTSI and the p-pilot root valve was closed stopping the leak.	A vac truck was used to recover the fluids in the secondary containment. Contaminated gravel was scooped up and bagged for class 2 disposal.	Recovered fluids and contaminated gravel were taken to G&I for class 2 disposal.	Immediate notifications were made.
5/10/06	2006-IR-1829028	Flow Station 3, GPB, FS3, Mod 4941., FS3	Produced Water	100.00	PWI pump 15-188 outboard seal failed releasing produced water to module 4941 sump and floor. Pump was shut down and water squeeged to sump.	Water was squeeged and swept to the module sump.	Fluids were put back in to process.	Agencies were notified of release.
12/12/00	2000-IR-95703	Well Pad F, F-Pad bulk methanol tank	Methanol	100.00	An APC and Peak employee were offloading a mixture of 50/50 methanol into the storage tank at F-Pad when a pump failure occurred and allowed head pressure to backflow methanol into the delivery transport and overflow onto the pad. The employees had connected the chemical transport to the chemical storage tank with 3 inch hose and began offloading 50/50 methanol. The employees began conducting routine checks of the operation every 10 to 15 minutes. At approximately 1455 hours the pump was visually checked and appeared to be operating normally, however when the employee began walking away he noticed that there was fluid on the pad. The crew immediately shut in the valves on the tank and transport and shut down the chemical pump. Initial investigation indicates that there is an internal malfunction of the pump which allowed the methanol to backflow into the delivery transport tanker which overflowed onto the pad. The overflow occurred from the vent line located on top of the tanker. The methanol drained into the catwalk/storage area on the side of the tanker. This incident resulted in approximatley 100 gallons of methanol being spilled onto the snow covered gravel pad. The Environmental Department was notified and spill clean-up activities were initiated.	Snow and gravel has been cleaned up with a bucket loader and material was placed in open top storage containers.	Contaminated snow has been melted down and reused. Contaminated gravel was washed and vacced out until it was determined through sampling that the gravel no long contained methanol per the EPA requirements. The gravel was then reused on Santa Fe Pad.	
8/19/06	2006-IR-1946895	U-03 (Water/Wastewater), U-3 SEWAGE HOLDING FACILITY ON MCC PAD., Non Process Area	Sewage	100.00	VAC TRUCK DRIVER WAS OFFLOADING SEWAGE INTO U-3 HOLDING TANKS. HE CONNECTED THE HOSE TO THE VAC TRUCK, OPENED THE VALVE AND WALKED FROM THE BACK OF THE TRUCK TO THE CAB AND TURNED ON THE PTO THEN WALKED BACK AND SAW ONE OF THE CAMLOCK FITTING WAS LOOSE. THE DRIVER IMMEDIATLY SHUT THE VALVE THEN TURNED OFF THE PTO.	A vac truck was used to recover the standing fluids and put back into the facilities system. Contaminated gravel was removed with a loader and put into a dump box for disposal. Lime was then spread over the area on the gravel. The area on the tundra was flushed with fresh water and taken to Pad-3 for disposal.	Initial fluids recovered was recovered and put back into the system. The contaminated gravel was taken to Pad-3 for future remediation. The flush water was taken to Pad-3 for class one injection.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/24/03	2003-IR-493385	Well Pad F, F-Pad	Hydraulic Fluid	100.00	While operating the rig's bridge crane a 1" hydraulic hose came apart at the fitting. Released 100 gal of oil to a secondary containment area. No oil reached the ground.	Approximately 73 gallons of free standing liquid were recoverd by the rig crew and transferred into 55 gallon drums. The remaining 27 gallons of liquid on the floor was wiped up by hand with absorbent pads.	The recovered hydraulic oil in 55 gallon drums has been taken to the Haz-waste Process Facility and will be recycled. The absorbent pads have been taken to an approved NSB oily waste dumpster.	
4/10/04	2004-IR-863954	Drill Site 11, GPB, East, Flow Station 2, Drill Site 11, well 38, FS2/COTU	Methanol	100.00	While filling and pressure testing flow line with pure methanol using a triplex pump, needle valve on discharge of pump bleed vibrated open.	Spilled material in the containment area was pumped back into the bulk tank.Contaminated snow was scraped up with a bobcat and placed into a snowmelt bin. The gravel underneath, was trimmed down aproximately 4 to 5 inches and placed into a different bin.	The contaminated snow was melted down and sent in for benificial reuse (freeze protection). The contaminated gravel was sent to Pad-3.	
9/10/07	2007-IR-2403131	Flow Station 3, FS3 - Module 4904 - Skid 1801 T/C , FS3	Lube Oil	100.00	The1801 T/C seal oil filter differential transmitter (DP189) sensing line connection failed. The failure separated at ½¿ tubing x ½¿ iron pipe connection. The 210 psi seal oil released in to the atmosphere spraying onto the floor, piping, and associated equipment behind the local gauge panel. This resulted in an ~ 60 gallons of seal oil on the module floor. The auxiliary seal oil pump has automatically switched on, the board operator notified the unit operator of the situation, and the operator responded to the area. The operator responded noticing a haze in the module then peered through the module door seeing oil on the floor. The operator immediately initiated the emergency shutdown inside the local control with the machine shutting. The seal oil was contained in the area under the skid and module floor. The ground under the module was inspected and found to be oil free. The spill was called in to x5800 by the boardman and the FS3 OLT notified Central Area Manager. Operations cleaned up the floor enough to access the unit and isolate the sensing line. Once safe-out was complete SRT was requested to assist with the cleanup efforts.	A barrel vacuum unit was used to pickup the free standing seal oil. The remaining pipe and floor was being wiped down by spill response team.	Free standing fluids placed in sump for recycle. Oily Sorbents and Rags sent to oily waste.	
3/30/06	2006-IR-1779700	Drill Site 04, Inside manifold module on 4-13 flowline spec flange., FS2/COTU	Produced Water	100.00	While blinding 4-13 flowline inside the manifold module, the flange was separated and fluid drained into pan and vac'd out, fluid surged and over ran the catch pan.	Most of the water was vacumed up using drum vacs and a vac truck. The area then was wiped down with absorbents, rags, and chem clear.	Fluids were taken to Pad-3 for disposal and the absorbents were disposed as oily waste.	
7/28/06	2006-IR-1920215	Main Construction Camp (MCC), MCC MEDICAL CLINIC, Non Process Area	MEG	100.00	AT 4:45 PM A MAINTENANCE TECH NOTICED THAT THE BOILER PRESSURE WAS DOWN A FEW PSI. HE NOTIFIED OTHER MAINTENANCE TEAM MEMBERS AND THEY BEGAN TO SEARCH THE MCC FOR SIGNS OF A LEAK. AT 5:15, A TECH WENT OUTSIDE AND SMELLED GLYCOL. LOOKING UNDER THE BUILDING HE NOTICED FLUID DRIPPING OUT FROM THE UNDERSIDE OF THE MEDICAL CLINIC. HE NOTIFIED THE LEAD TECH AND CALLED THE SPILL HOTLINE. THE TECHS ISOLATED THE SYSTEM IN THE AREA BY SHUTTING VALVES IN THE SOFFET AREA UNDER MCC. THEY ENTERED THE AREA UNDER THE CLINICTHROUGH A HATCH AND LOCATED THE SOURCE OF THE LEAK. IT WAS A GASKET ON A VICTAULIC COUPLING ON A 3 " LINE. THEY REPLACED THE GASKET, CLEANED UP THE SOFFET AREA WITH ABSORBANTS, AND PUT THE SYSTEM BACK IN SERVICE.	Sorbents, were used to remove standing fluid onground, as well as under Mod floor. A Super Sucker was used to remove containated material.	Sorbent went to oily waste, contaminated gravel went to Pad 3 for disposal.	
12/20/01	2001-IR-147420	Flow Station 3, FS-3 module 4941	Produced Water	100.00	While the unit operator was making rounds of the produced water section he discovered the inboard bearing seal flush line on PWI pump 15188 was plugged. He made several attempts to unplug the line then started to flush the outboard bear seal flush line. The operator inadvertently left the flush line needle valve open to the sump. At 1:30 AM he found produced water on the floor of module 4941. Produce water made it to the pad through the firewater drain on the module floor. The spill notification number was call and SRT came out to clean up the produced water.	Recovered product with jackhammers and placed into dump box for disposal.	12 cu. yards of material taken to Pad 3 for disposal.	
11/2/01	2001-IR-130519	PBOC, PBOC module 08-4910	Sewage	100.00	A dripping sewer line in the utilidor under the theater at PBOC was discovered and repaired. It was noticed on 11/2/01 that there were some frozen stalagtites of the sewer water under the utilidor near the location of the repaired piping	Recovered product with jack hammers and used a supersucker to transport the material to Pad 3. Lime was spread over area upon completion of clean up.	27 cu. yrds of material taken to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/14/02	2002-IR-168193	Chemical Tank Dock, Tank 1905 C-Pad Chemicals north side outlet.	Corrosion Inhibitor	100.00	The employee initiated the leak testing of tk 1905 with 01VD121 Corrosion Inhibitor at approximately 12:00 PM and checked the piping for leaks throughout the day until 11:00 PM. At approximately 1:00 PM on 2/14 the employee discovered the leak. The employee transfered approximately one half of the fluids from tk 1905 to 1904 thereby minimizing and stopping the leak. The 2 O-Lets half way up the side and center of tk 1905 had plugs but one of plugs was not tight from which 01VD121 leaked. The O-Lets were covered with snow due to being resessed in the exterior foam insulation and was not visible until leaking. The employee then checked tk 1904 and discovered 2 O-Lets half way up the side and center, snow covered and duct taped closed. No plugs were in tk 1904. The product that was pumped into Tk 1904 did not leak as the product level in the tank was below the duct taped oulets. There was approximately 100 gallons of 01VD121 spilled under tk 1905. The employee made prompt notifications as required.	Product recovered with Vac truck and transfered to holding tank for re-use.	Material will be re-used for intended purpose.	
11/21/06	2006-IR-2058049	Drill Site 12, Rig floor under draw works., FS1/SIP/STP	Hydraulic Fluid	100.00	Primary hydraulic hose supplying the rig floor tools failed, spilling 100 gallons of hyd fluid into secondary containment.	Oil was pumped from containment to 55 gal drums.	Recovered oil will be sent in for recycling.	
2/3/01	2001-IR-98911	Lisburne Production Center	Produced Water	100.00	At 23:53 on Module 4923 control system (Setcim) experienced a malfunction that caused five of the nine Desanders to enter a dump mode, with the outlet valves and the flush valves in the open positions. All nine Desanders showed Abnormal valve position alarms. This system dumps to the sand bin. The pumps that pump from the sand bin to the CHD could not handle the flow. This caused the sand bin to over flow into the enclosure and onto the Garvel pad under the enclosure. At 00:02 the malfunction cleared and all the desanders automatically went into the dump mode adding to the spill volume. AT this time the LPC Board man was able to control of the system and placed all the Desanders in the off mode. Until this point the Board man was not able to operate the valves because of the malfunction. The Board man called the GPMA OTL and informend him of the situation. The OTL called in the spill to Security and contacted SRT to get the clean up process started. DSM was also called out to pump down the sand bin enclosure.	Loaders with scratchers and buckets scraped contaminated snow from pad. Remainder was completed manually using jackhammers and shovels.	43 cu. yds. ice/gravel/snow to pad 3	
7/6/03	2003-IR-560528	Spine Road, Spine Road	Sewage	100.00	Driver was returning from west side of field and had crossed the Kuparuk river bridge heading east. Approximately 1.5 miles east of the bridge, while checking his side mirror, he noticed fluid spilling onto the road from his vehicle. Immediately the operator stopped the vehicle and went to the back of the truck and found that the valve had opened partially. It has been determined that the valve opened due to the vibration from the rough road conditions. Operator shut off valve and immediately alerted supervisor and contacted 5700 (security spill reporting).	No cleanup possible. Road dust and traffic rendered the spill undetectable to responders.	None	
9/9/96	1996-IR-89837	GC-1 Pad	Crude Oil	99.99	Day Operator was depressuring D-93 flowline for maintenance work. Divert valves were being checked for leak through. Bleed hose was attached to flowline in Skid 4 to depressure line and check divert valves. The line bled down and the bleed hose was left in the open sump inside the Skid. Apparently solids plugged off hose until leak through pressure built up blowing out the pluggage and releasing oil and gas into skid. ERT was called out.		Contaminated sorbents were placed in a NSB oily waste dumpster. The fluids were pumped from the sump into the facility skim tank for recycle.	During a depressuring operation for flowline repair to line D-93, a bleed line was placed into the sump in Skid 4. The hose became clogged, building up pressure. The pressure dislodged the clog and allowed the the hose to come out of the sump spraying c
5/3/94	1994-IR-86250	Well Pad P	Crude Oil	99.99	The well pad operator had the PCC blow all the liquid out of P-WPS so the PSV could be safed out for PM'ing. The pad operator then checked the local sight glass for fluids. He blocked in the PSV and opened the WPS to the outside vent line. He went outside and checked the vent line and it was venting okay. He went back inside and checked the WPS pressure and then went back outside to check the vent. There was gas and a heavy oil substance blowing on the side of the building. He went back inside and blocked in the vent line. He notified the Night Operations Supervisor and Environmental. There was about two gallons on the snow and a fine oil mist in about a 15' x 30' area.		All contaminated material was taken to the BP T-Pad oily waste pit.	While depressuring the test separator a mist of crude oil/sludge discharged from the 2" bleed line causing approximately one hundred (100) gallons of crude to spill on the module and ground. All proper procedures were followed for bleed down on this part
6/27/95	1995-IR-86583	Well Pad F	Seawater	99.99	BJ was pumping 5% HCL acid through their hardline to perform an acid wash on well F-39. A leak developed at the chicksan swivel joint halfway through the job, causing 40 gal of acid to spill onto pad. 100 gals of seawater was used to flush line so that repairs could be made, causing an additional 100 gal spill. The line had been pressure-tested to 4000 psi prior to starting the job. The swivel joint failed with 2250 psi. A tear-down of the joint showed no obvious damage. A FMC representative is traveling to the slope to inspect and make recommendations.		The non-hazardous clean up material was taken to T Pad pit.	During an acid wash job on F-39 the Chiksan fitting failed, causing approx 40 gallons of HCL 5% solution to spill on to the Pad. The hardline had to be flushed with seawater so repairs could be made. Approx 100 gallons of seawater also spilled.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/31/96	1996-IR-91141	VMS Building	Calcium Chloride	99.99	A patch on a tire of a VMS loader ruptured causing approxmately 100 gallons of calcium chloride to spill from the tire onto the Pad. Calcium Chloride is used for ballast in the rear tires.		The non-hazardous clean up material was taken to Arco Pad 3 for disposal.	A patch on a tire of a VMS loader ruptured causing approxmately 100 gallons of calcium chloride to spill from the tire onto the Pad. Calcium Chloride is used for ballast in the rear tires.
6/17/96	1996-IR-98617	Seawater Injection Plant	Seawater	99.99	"A drain line in module floor soffit area developed a pin-hole leak. In addition, fluid level in sump rose above drain lines and fluid entered the line."	"Used hand tools, plows and Bobcat to remove contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 6/24/96 for future remediation."		"A drain line in module floor soffit area developed a pin-hole leak. In addition, fluid level in sump rose above drain lines and fluid entered the line."
6/7/93	1993-IR-88777	Well Pad X	Methanol	99.99	Prior to production, X-19 S-Riser was pressure tested to 1,000. A leak occurred at sample point in X-19 Wellhouse. To stop leak, operators depressured to slop tank. MEOH and crude from displaced flowline in the slop tank vented outside module. Fueler saw spill and reported to MOC. Further investigation identified an ice plug in a line which broke loose and caused the slop tank to fill at too high a rate. Testing of S-Riser only was not possible as lateral valve would not hold pressure. 100 gallons Methanol/Water, 60/40 40 gallons Crude		Crude oil and snow melt were reinjected into the process stream. Contaminated gravel was taken to Arco Pad 3.	Riser line was being depressurized to prevent gas leak. An ice plug moved unexpectedly, causing the material in the line to vent to the outside.
4/22/00	2000-IR-94897	Well Pad J	Corrosion Inhibitor	99.99	During snow removal from the reserve pit at J pad, a spill of corrosion inhibitor was discovered under a large accumulation of snow. The spill appears to have come from a fitting in the chemical distribution system and appears to be several months old. Following investigation it was determined that a Swagelok fitting became stretched and bent by excessive snow loading. BPX Environmental was notified of the leak and began removing contaminated snow from the reserve pit. The spill has been estimated at 100 gallons.	The affected snow was removed with heavy equipment. Reserve pit was dewatered during summer operations.	The non hazardous snow has been hauled to pad three for disposal.	All contaminated snow was removed last winter and the pit was dewatered with vac trucks during summer operations.
9/18/93	1993-IR-89029	Well Pad E	Drilling Mud	99.99	While the rig was circulating bottoms up the shakers were unable to keep excess mud from running over and into outside tank. Consiquently the tank filled unusually fast. The guzzler truck driver had left location to unload at the ball mill. In his absence the tank overfilled, spilling approx. 2 bls. of mud onto the pad. The rig crew responded immediately and reported the incident to the rig supervisor. The environmental department investigated the incident and it was determined that there was no environmental damage.		Drilling mud was taken to Ball Mill for disposal.	Miscommunication between rig team and driver unloading mud truck allowed tanks to overflow.
6/8/00	2000-IR-95014	GC-1 Pad	Crude Oil	99.99	An oil leak was discovered at the dead crude oil storage area of GC-1. Oil was found to be leaking inside and outside of the containment from the line feeding the storage tanks. The line was blocked in and the insulation removed from the fill line which revealed a blown Garlock gasket in a flange located just outside of the containment area. The gasket was replaced with a flexitalic gasket. The heat trace for the line was found to be non-functioning at the time of the incident. Troubleshooting the heat trace is underway.	oil/water was removed with vacuum truck	oil/water/gravel mixture disposed at Pad 3.	NOTE: Spill Report # has been changed from 99-055 to 00-055.
9/18/91	1991-IR-97547	Drill Site 11	Produced Water	99.99	Produced water sprayed out of a leak in an injection line.	YES -		Produced water sprayed out of a leak in an injection line.
8/25/93	1993-IR-98020	Flow Station 3	Produced Water	99.99	"While sandjetting slug catcher, hose developed leak."	A supersucker was used to remove the contaminated gravel. Cleanup is considered to be 100% complete. - The contaminated material was taken to the Pad 3 West Temporary Pit on 8/25/93 to be held for future remediation.		"While sandjetting slug catcher, hose developed leak."
7/18/93	1993-IR-98010	Flow Station 2	Produced Water	99.99	"Release from 24""""" flange on a common line."	Metis/Cleanup		"Release from 24""""" flange on a common line."
10/6/98	1998-IR-98762	Drill Site 04	Crude Oil	99.99	Overflowed 40 bbl open top tank.	Used absorbs to contain fluids. Loader and scratcher used to removed contaminated gravel. -		Overflowed 40 bbl open top tank.
7/13/93	1993-IR-86686	Well Pad Z	Seawater	99.99	Operator overfilled the frac tank. The area was flushed with 100 barrels of fresh water. The Peak driver was counseled on proper tank loading procedures.			Operator overfilled frac tank.
8/21/92	1992-IR-97762	Drill Site 11	Diesel	99.99	Leak in generator fuel tank.	Metis/Cleanup		Leak in generator fuel tank.
4/20/91	1991-IR-97303	Drill Site Maintenance	Sewage	99.99	Valve leaked.	YES -		Valve leaked.
7/3/89	1989-IR-96707	Not specified	Diesel	99.99	Leaked from fuel supply line.	Not specified	Not specified	Not specified
5/31/85	1985-IR-95924	East Dock, Not specified	Diesel	99.99	Unauthorized discha	Not specified	Not specified	Not specified
7/23/88	1988-IR-96477	West Dock, Not specified	Diesel	99.99	Pipe flange failure	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/5/88	1988-IR-96260	J Pad, Not specified	Methanol	99.99	Opened wrong valve	Not specified	Not specified	Not specified
10/20/86	1986-IR-96163	Central Gas Facility, Not specified	MEG	99.99	Air unit ruptured	Not specified	Not specified	Not specified
9/4/81	1981-IR-96058	COTU Facility, Not specified	Crude Oil	99.99	Overflow of truck	Not specified	Not specified	Not specified
6/7/81	1981-IR-96045	Surfcoat Pad, Not specified	Diesel	99.99	Thermal expansion	Not specified	Not specified	Not specified
6/25/88	1988-IR-96441	Drill Site 09, Not specified	Diesel	99.99	Tank overfilled	Not specified	Not specified	Not specified
11/10/82	1982-IR-96093	Drill Site 14, Not specified	Diesel	99.99	Valve left open	Not specified	Not specified	Not specified
12/19/87	1987-IR-96392	COTU Facility, Not specified	MEG	99.99	Pipe split	Not specified	Not specified	Not specified
5/15/05	2005-IR-1370159	Well Pad Z, Z-pad, tank 3004A, GC2/SAT	Silicon Defoamer	96.00	The chemical foreman dispatched the chemical operator to Z-Pad to take tank readings. While performing his task the chemical operator noticed fluid in the secondary containment under tank# 3004A. He inspected the sight glass on the de-foamer tank and noticed that the reading had dropped 16" since the last check. The Z-pad operator was notified, the spill was reported to environmental at 5700 and the chemical supervisor was notified. The pad and chemical operators took the necessary steps to secure a loose fitting that was the souce of the leak.	A vac truck with warm water was used to melt snow and thin material enough to revac back into the vac truck.	The product was reviewed by the GPB waste coordinator, the GPB environmental advisor and will be taken to GC-2 for recycle.	The verbal notification was made on 5-15-05 at 16:20 hours.
7/16/06	2006-IR-1907058	Spine Road, Spine Road in front the BOC along D-pad access road to D-pad, Non Process Area	Diesel	90.00	On the morning of 16 July 2006, at approximately 8:55 am, vac unit 82237 / 86074 was headed to Doyon 16 at D Pad from VECO base. The truck was empty, and was going out to de-inventory the cuttings tank at Doyon 16. When the truck arrived on location, the driver was being flagged down by two other vehicles that were following him. The occupants of the other vehicles informed the vac truck operator that his vac trailer was leaking fluids, and that they noticed the release around the entrance to the BOC. Initial investigation shows that the brackets that support the vac trailer pony motor fuel tank had failed. There are two of these brackets, and the one on the passenger side of the unit failed at a weld point, allowing the corresponding side of the fuel tank to fall to the ground. The tank was dragged along the ground for approximately 3 miles. The driver of the unit states that the tank was full before the unit left the yard. The tank¿s capacity is 100 gallons, and the tanks are filled to 90%. The amount of diesel released to the ground is determined to be 90 gallons. The incident was immediately reported. SRT responded and initiated clean up operations. The incident will be classified as a spill.	A grader, loader, Vac truck, sorbents and handtools were used to remove contaminated gravel.	The gravel and liquids were taken to Pad 3 disposal facility. The sorbents were drained and taken to an oily waste dumpster.	The verbal notification was made on 7/16/06 by the GPB Environmental advisor West at approximately 0950.
9/30/04	2004-IR-1073269	GC-2 LPS Section, GC2/SAT	MEG	90.00	On September 30th at approximately 3:00 PM glycol was discovered dripping from the soffit area under skid 452. The operators isolated the heat trace system that runs in the skid soffit area for the skid sump then called 5700 to report the spill per bp¿s procedures.	A hand pump was used to transfer the liquids into drums. The gravel was removed using shovels.	The liquids will be recycled at the Gathering center. The gravel will be taken to Pad 3 disposal facility.	The initial verbal report was submitted on 9/30/04
5/20/06	2006-IR-1839689	C Pad, North side of c-pad warehouse staging area., Non Process Area	TEG	90.00	Loader operator was moving 6ea 330 gallon liquid totes of WR6 cleaner/degreaser. 5 of the 6 totes were moved successfully. While picking the 6th tote the operator was watching his left fork as he entered the fork pockets on the tote. Operator stated that as he entered the fork pockets something just did not feel right. He backed the loader up and discovered that the right fork had punctured the tote. The ground was uneven and the right fork rose up approximately 2-3 inches causing the fork to puncture the tote. Operator immediately went to get assistance from 2 CIC employees to help him tip the tote on its side to stop the spill. Operator reported to his supervisor and the non emergency spill line was called and SRT responded. Spill was cleaned up by SRT and the tote was pumped out by CIC.	Absorbents were immediately put down to contain the material. A bobcat and dump box were used to recover the contaminated gravel.	Contaminated gravel was taken to Pad-3 for storage and future remediation and the contaminated absorbents will be disposed as solid oily waste.	Material spilled was WR6 Cleaner / Degreaser
2/18/97	1997-IR-89217	Well Pad Y	Diesel	88.99	HB&R crew was pumping diesel down the inner annulus on well Y-20. They were receiving fluids from a Peak Vac-truck, which was pressured up to 15 psi, through the 6 inch suction manifold of the HB&R Pump Unit. While the unit was being pressured up the HB&R returns line also saw pressure as there was no block valve to isolate this line from the suction manifold. A 2 inch hose separated from a king nipple and diesel overfilled the containment sump of the pump unit. The containment sump holds a volume of approximately 15 to 16 barrels. The spill was estimated at approximately 2 barrels on the pad. The HB&R pump crew made an attempt to clean the diesel from the tires of their unit. Once the diesel appeared to have stopped leaking under the unit, the pad operator instructed the crew to drive the unit straight to their shop. This action resulted in a narrow stream of diesel being spilled on the road from Y-Pad to the shop area at Frontier curve.		Snow melted and re-used for freeze protection	While HB&R Hot Oil Unit was attempting to receive diesel from a Peak Vac Truck at Y Pad, Well 20, a line separated inside the HB&R unit. This caused diesel to over run containment area inside the unit and out onto the ground. A secondary spill occurred

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/10/93	1993-IR-89861	Well Pad M	Drilling Mud	87.99	Mud pump repair had just been completed. A valve to the mud trap was inadvertently left open, which allowed mud traps to overfill. Excess drilling mud ran out onto pad.		All contaminated material placed in slop tank for disposal at the CC-2 Ball Mill.	Mud pump repair had just been completed. A valve to the mud trap was inadvertently left open, which allowed mud traps to overfill. Excess drilling mud ran out onto pad.
2/18/04	2004-IR-809026	Well Pad W, W-Pad, W-8, GC2/SAT	Methanol	86.00	W-08 was being brought back on-line following the GC-2 LPS machine shut down. The operator was in Module 501A adjusting the choke to minimum and opening the inlet valve. When he grasped the handle and applied pressure, the valve stem broke. The rush of fluids from the stem area knocked the handle out of his hands. The operator immediately left the skid and notified field personnel. The well had been freeze protected with neat methanol during the GC-2 shut down, so this was the liquid that escaped into the skid. The gas from the flowline set of the gas detectors, triggering a pad shutdown and dumping eight 200# bottles of Halon. The operator hooked up a bleed trailer to the W-08 S-riser and bled pressure off the flowline.	Fluids recovered with Vac truck, some cleanup with handtools (shovels, absorbents, etc.).	Fluids were disposed at Pad 3 disposal well, snow was taken to T-Pad permitted storage cell. Disposal verbally approved by Walt Sandel (ADEC) on 2/18/04. Contaminated absorbents will be sent to North Slope Borough approved oily waste dumpster.	With the exception of 2 gallons recovered from the ground beneath the module, the released materials were confined to the inside.
7/8/92	1992-IR-86660	Well Pad B	Seawater	85.99	A vac truck operator disconnected the wrong hose after completion of his job. The affected area was flushed with 300 gallons of fresh water to reduce salinity to background levels.		None required.	Vac truck operator disconnected the wrong hose after completion of his job.
11/1/97	1997-IR-90428	GC-3 LPS Section	MEG	85.00	At 12:30pm 11/1/97 loader operator notified Skid 7 MEG was leaking out of building. Operations investigated and discovered glycol leaking from unit heater in Skid 454 battery room. Operations isolated the unit and called environmental to report spill and begin cleanup.		Contaminated snow and gravel was taken to ARCO Pad 3 for non-hazardous disposal.	At 12:30pm 11/1/97 loader operator notified Skid 7 MEG was leaking out of building. Operations investigated and discovered glycol leaking from unit heater in Skid 454 battery room. Operations isolated the unit and called environmental to report spill a
11/21/06	2006-IR-2058345	PM-2, PM-2 Well-15, GPMA	Methanol	85.00	A DHD crew was at Point Mac-2 well 15 to do a Mechanical Integrity Test (MIT) on the Inner Annulus (IA). They were pumping the annulus to 3000 PSI. The pump they were using was bleeding pressure back through the suction valves on the tri-plex pump. They were using a portable methanol tank and the tri-plex source tank was disconnected from the suction of the tri-plex pump. Unknown to the crew, the fluid was leaking past the suction valve on the tri-plex through a bad check valve and the sump pump, and into the sump. This caused the sump to fill with methanol while the pumping operation was in progress. The tri-plex was pumping for 40 minutes. The operator could not see the sump because of where the controls to the pump are located. When the pumping was finished the pump operator closed the discharge valve on the pump and the I/A valves. The employee noticed methanol leaking out of the back to the pump trailer. He lowered the front of the trailer to stop the methanol from leaking out of the back of the pump trailer, which caused methanol to flow to the front of the pump trailer and onto the ground. The crew made appropriate notifications, and the release to the ground was estimated to be five gallons, with the amount in the sump and trailer was estimated to be 85 gallons.	Vac truck, and hand tool's were to remove contaminated fluid's,and gravel.	Fluid's recovered were used in beifical reuse. Gravel was brought to the Hazwaste coordinator to be shipped as hazwaste.	
10/18/06	2006-IR-2023057	GC-1 Oil Section, GC-1 skid 4, GC1	MEG	85.00	At 230am the UT Crew found MEG on the floor at skid 4 GC-1 and notified the oil section operator. The lead operator and the oil section operator found that a temperature valve was leaking onto the floor and isolated the valve. The spill line was called and the supervisor notified.	The freestanding liquid inside the skid was recovered using an air operated drum vaccum. The floor was hand wiped with absorbent pads.	Material will be taken to Pad-3 for disposal. Absorbent material was taken to an approved NSB oily waste dumpster.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/7/95	1995-IR-86871	Well Pad H	Seawater	84.99	An 85-gallon seawater spill occurred when a low pressure fluid transfer line failed during a CTU sand back operation on H-06. Seawater was being transferred from a 400 bbl portable holding tank via a charge pump and seawater filters to a BJ cement truck. The sand slurry has been pumped into the coil and the seawater was being used to displace the slurry across the perfs. Within a minute of the rupture occurring, the line supplying the leak was isolated at the BJ pump truck by the Pump Operator, and also at the filters by the CAMCO CT helper who observed the leak, and thus the volume of the spill was kept to a minimum. The CT sandback operation continued using the spare capacity in the BJ gel mixer while the ruptured hose was changed out. The replacement section of hose was charged up slowly and the operation continued without further problems. It was not possible to shutdown operation as sand was in the coil. The crew did an excellent job of keeping fluid moving. On-Site Investigation 1. Upon visual inspection of the inside of the hose, the hose appeared to be generally in poor condition. Immediately adjacent to the rupture area, the hose lining was worn away and the steel reinforcement wrapping was seen to be corroded. 2. An inspection of the exterior of the hose showed the hose to be in fair condition. No visible exterior evidence of a pending problem was seen. 3. The pressure on the charge pump discharge was 65 psi. Follow-up Investigation by BJ 7/7/95. A number of items have been confirmed by BJ: 1. These transfer hoses are subjected to routine visual inspection but no records are kept of when this occurs for this or any other hose in use. 2. The maximum working pressure of these hoses is 150 psi as stamped on the external surface. The hose supplier has also stated verbally that the hoses are tested to 600 psi. 3. The hoses are currently used for transferring all stimulation chemicals and other fluids currently used by BJ. This includes the following: xylene, HCL, cement, seawater, methanol and other fluids. 4. The hoses are used by most operations at PBU and are suitable for use as suction and discharge over a wide temperature range (-65!F - 200!F) 5. The supplier has informed us that these hoses often remain in storage for several years at the manufacturers and also remain in stock up to one year at their premises. 6. The hose is supplied in bulk reels and high integrity (tri-locks) fittings are fitted by BJ at Deadhorse.		The non-hazardous gravel was taken to Pad 3 for disposal.	Seawater was being transferred from a suction tank to a BJ sand truck via a charge pump at 60 psi. The suction hose burst and the pumping operation was shut down immediately.
2/19/92	1992-IR-87246	Well Pad M	Seawater	84.99	Operator inadvertently blew air into full frac tank with fac truck causing tank to overflow. A loader with a bucket picked up the contaminated material and put it into slop tank on pad for reuse after thawing. The employee was not familiar with the procedure. He was counseled by his supervisor.		To be reused.	Operator inadvertently blew air into full frac tank with vac truck, causing tank to over flow.
9/26/00	2000-IR-95417	GC-2 Pad	Produced Water	84.99	While loading a vac truck with fluids and solids from a skim tank at GC-2 the ball float for the rear indicator gauge became weighted down with solids and failed to indicate the proper volume contained in the rear of the truck. The Operator became suspicious and upon checking the indicator gauge at the front of the tank found the truck to be full. He immediately responded by stopping the fill operation, but the liquids/produced water came out the relief valve before he could isolate the tank.	The free standing liquids were sucked up using another vac truck on scene. A loader and hand tools were used to clean up contaminated gravel.	The class II material was taken to Drill site 4, Grind and Inject.	Personnel on scene responed in cleaning up liquids as soon as spill occured.
12/1/00	2000-IR-95625	Flow Station 1	Crude Oil	84.99	Cause unknown at this time. Crude Oil/Methanol/KCL released inside Module 4921 @ FS #1.	Recovered material with hand tools and placed into bags for disposal at pad 3.	Free standing fluids were pumped back into slop oil tank #34 (approx 75gal). 2 cu yds of lightly contaminated gravel taken to pad 3 for disposal.	This information is being provided to ADEC per 18AAC75.300.
7/11/92	1992-IR-97745	Spine Road	Diesel	84.99	Crane ran off road and turned over on its side.	Metis/Cleanup		Crane ran off road and turned over on its side.
12/2/94	1994-IR-98420	Drill Site 15	Diesel	84.99	"Hose fell from bracket, knocking valve open."	"Nabors personnel used super sucker and sorbents to remove standing diesel and soak up as much as they could. Further cleanup will be required when the rig moves, in about 5 days. - Diesel to be recycled at Flow Station 1."		"Hose fell from bracket, knocking valve open."
11/5/05	2005-IR-1605494	Flow Station 2, FS 2 Flare pit and nearby tundra area approximately 100 yd by half a mile long., FS2/COTU	Natural Gas Liquid (NGL)	84.00	Unexpected Frame 5 turbine (1803) shutdown due to loose wire in the ESD valve control circuitry caused rupture disc to blow out. This resulted in a fine oil/NGL mist to be blown onto tundra from the flare stack. In addition an intermittent excess emissions (opacity) event was observed from the STV assist flare.	A 22-person contractor cleanup crew used hand tools to recover the contaminated snow from the snow-covered tundra surface and transported it with snowmobiles and Kubota track vehicles to an area where it was loaded into a dump box with a bobcat for disposal.	Contaminated snow was injected at the Grind & Inject facility in Greater Prudhoe Bay.	Per request by John Dixon (ADEC) collect water sample(s) at clean up site as early as possible in spring (pending break up conditions) and analyze for BTEX, GRO/DRO/RRO. Visually monitor site around outside of flare fence and deploy sorbent boom, sheets or other materials as needed to prevent hydrocarbon migration if identified.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/21/02	2002-IR-318607	East Dock, Drilling Rig Nabors 27E	Drilling Mud	84.00	Two bbl drilling mud leaked from mud pits, 1 1/2 bbl onto the herculite under the pit module and 1/2 bbl spilled onto the pad.	Recovered material with Super sucker.	Material benefically reused for intended purpose.	Immeditate notifications made to the appropriate agencies. Initally reported on 9/21/02. Final report was pending rig move and inspection of area. Area inspected with no additional material found.
2/15/07	2007-IR-2158410	Flow Station 3, 4929 Flare sump module, FS3	Natural Gas Liquid (NGL)	84.00	The gas operator was making morning rounds when a hydrocarbon smell as the 4929 module door was opened. Upon entry, liquid were noticed on the gravel pad beneath the grating. The operator exited the module closing the door behind. An outside the module inspection was completed with no indication liquids. The spill was reported shortly afterwards. Atmospheric testing was completed for all module entries with personnel wearing the appropriate PPE..	Heat, and ventillation to evaporate NGL's. Material is to volatile to transfer, or attempt clean up at this time. Material was evaporated. Samples taken inside module. Outside inspected before and after snow melt and found to be clean.	Evaporate fluids.	Agencies were notified of release. Testing of soils inside module show some contamination. Grating floor cannot be removed at this time. To be turned over to contaminated sites.
7/25/03	2003-IR-576320	GC-2 Oil Section, Skid 2 shipping pump discharge line.	Crude Oil	84.00	An operator approaching skid 2 picked up a strong hydrocarbon scent and noticed oil spraying from a location overhead when he looked through the window in the door to skid 2. He contacted the boardman by radio and advised him of the leak and a large quantity of oil already on the module floor. The boardman initiated an emergency shutdown of "B" oil bank. The Emergency Response Team was notified and responded to the area. After the bank was depressured, ERT and facility personnel entered the module to assess the situation and determined the leak was from a crack in a weld on a sample fitting. The team isolated the cracked fitting and exited the area.	Facility piping has been hand wiped using rags and sorbent materials. Product on the module floor has been vacuumed up using a vac truck and a air powered barrel vacuum.	Contaminated sorbents will be taken to an approved NSB oily waste dumpster. The recovered fluids will be sent for recycle.	Initial reporting of this release was given at or about 11:00 am 7/26/03. On 7/27/03 fluids recovered were recycled in-house at GC-2 by facility personnel.
9/25/06	2006-IR-1990032	Drill Site 13, 13-24 flowline (in reserve pit) right behind 13-30 in the pipe rack, FS3	Produced Water	84.00	At 18:48, operator was checking annulus's on injectors that were brought on inj. when he noticed steam in the reserve pit. On closer inspection found flowline at the weld pac on 13-24 right behind well 30 in the pipe rack. Operator secured well in manifold & at well head.	A vac truck was used to recover standing fluids in the area.	Recovered fluid went to Pad 3 for disposal.	5 samples of the affected area were taken for conductivity on March 26th. The results for all five samples were under 3600 umhos/cm
2/19/06	2006-IR-1730787	L-2, L2 crude heater, GPMA	MEG	84.00	L2 crude heater leaked MEG from a cracked weld. The failure occured on the burner tube (B) where it is welded onto the heater shell. Crack was located at the 1 O'clock position. The heater was shut down and an epoxy patch was placed on the crack as a temorarily seal until the vessel can be drained and safed out for repair. WO 36312241	Loader, Bobcat and dump box were used to remove contaminated material from area. The area was then flushed with hot water to recover any remaining contamination.	Contaminated material was taken to Pad 3 for disposal.	Agencies were notified of release. NOTE: to Walt Sandel of ADEC. Final report will follow, pending sample results.
8/19/06	2006-IR-1947504	Well Pad S, S-pad reserve pit, GC2/SAT	Crude Oil	84.00	A BPXA Contract employee was hauling approximately 220 bbls of water containing 1% KCL to support a down-hole pumping operation on well S-104. Upon arrival to the well pad intersection the driver made a wrong turn, which took him to an unidentified restricted area on a reserve pit access road. While entering a ninety degree turn the trailer wheels bogged down on a soft shoulder causing the trailer to roll over and recoil the top cab of tractor onto the road. The contract employee sustained multiple fractures to the left shoulder and upper arm. The injured employee had to be extracted from the cab of the tractor and transported to the BOC medical clinic for further medical evaluation. The employee was med-a-vaced to Anchorage Providence Hospital to receive further treatment.	A sump was dug using handtools and a vac truck was used to recover the liquids as they leaked from the tanker. Shovels were used to remove contaminated gravel from the access road. Another vac truck was used to skim the material from the containment boom.	All the liquids and gravel went to Pad 3.	The verbal notification was made on 08/19/06 by the GPB WOA environmental advisor at approximately 09:30am.
1/27/06	2006-IR-1702739	Drill Site 13, DS-13 well 31, FS3	Crude Oil	84.00	Operations was in the progress of pressuring 13-31 flow line after well work over and piping modification to test for communication and confirm there were no ice plugs when operator at the well house noticed leak from elbow upstream of the well house. The flowline likely contained a mixture of fluids from wells 13-31, 13-32 and 13-35. A methanol / water mixture was pumped into the flowline last fall to freeze protect and troubleshoot potential ice obstructions in the line. Dead crude was pumped into the flowline in November to provide an appropriate heat sink for sleeve work on the flowline. The operators were using Artificial Lift gas to pressure the line and check for communication. When the line reached approximately 340 PSIG the operator that was at the well to check for leaks heard a leak from outside the well house. Upon investigation outside he saw freeze protect fluids blowing from the failed 90 degree elbow and notified the operator in the manifold building to shut in the AL gas. The line depressured immediately allowing primarily dead crude and methanol mixture fluids to be released to the surrounding area. Snow-covered gravel pad / road, reserve pit and tundra were affected. All valves on the header were closed and operations started blinding the flow line. SRT was contacted immediately.	Snowmachines and heavy equipment are being used to removed crude-contaminated materials from tundra. Trimmers, flushing & supersucker used for removing methanol from reserve pit. Absorbents, rag's and chem clear were used to remove contaminated material from piping.	All snow, and gravel were taken to DS 4 Grind and inject facility for disposal.	110 outside containment = dead crude; 2514 in containment = methanol NOTE: This is the Final report!

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/27/07	2007-IR-2276813	Well Pad W, W-213i in Cement mixer, GC2/SAT	Drilling Cement	84.00	After finishing the top-out, the mixing tub overflowed onto the floor of the van. The slurry ran to the back of the van and into the enviro take, but some also leaked out of the back door and onto the ground. Operator had went to open one valve and at the same time the switch for the tub suction valve was opened this put a tremendous amount of water to the tub right away. Not knowing what he did he was not sure what to do to fix it right away this allowed for the overflow of the tub.	A loader and hand tools were used to recover the contaminated snow and gravel.	The contaminated material was taken to T-pad storage facility.	The actual material spilled was a cement rinsate. The initial report was sent in on 05-27-07
2/1/03	2003-IR-425899	Drill Site 01, DS 1 Well 32	Seawater	84.00	Employee was dispatched to fill an upright tank on DS 1. Employee did a visual check on the upright and did not see any product in the tank. Employee hooked up to the upright tank and begin filling the tank with 1% KCL. Employee begin to do an inspection walk around as tank was being filled. As employee was doing an inspection he noticed that KCL was coming out the top of the tank. Employee immediately shut down pumping operation and notified his supervisor and all the proper notifications were made.	Loader and dump box used to recover material.	32 cubic yards of material taken to T-pad for disposal.	The make up of the material is water with 1% KCL solution. Initially reported on 2/1/03
10/26/06	2006-IR-2028802	Well Pad S, S-124i., GC2/SAT	Drilling Mud	84.00	Drilling 13.5" surface hole on S-124i at 150'. Plugged flowline with gravel wellbore cuttings material. 2 bbls of drilling mud overflowed the bell nipple and ran into the bermed herculite area of the the cellar. Floor hand stationed on floor to watch fluid level saw mud come up to floor level and signalled driller to shut down. The fluid was kept within the secondary containment area, squeegeed and cleaned up. Sucked out all material w/cellar pump and disposed of in cuttings box, the normal path of disposal for this material. Returned to drilling. Reported to 659-5700 at 21:30.	The material was squeegeed to cellar box and pumped to cuttings disposal box w/cellar pump.	The rig personnel sucked out all material w/cellar pump and disposed of in cuttings box, the normal path for the disposal of this material as it is brought from the well bore.	The verbal notification was made on 10/26/06 by the acting WOA environmental advisor.
10/16/06	2006-IR-2016736	Well Pad Z, Z-1a, GC2/SAT	Drilling Mud	84.00	While drilling at 11, 617 ft the hardline in the self contained reel house ruptured and sprayed 2 bbl's 82 gal of fro-pro drilling mud into the reel house.	Power washed reel house and disposed in the rigs disposal pit	In the rigs disposal pit	The verbal notification was made by the GPB WOA Environmental advisor on 10/16/06
1/9/02	2002-IR-152012	Drill Site 18, DS 18 # 34	Crude Oil	84.00	The LRS crew was dispatched to DS18-34 to preform an MIT on tubing. The crew arrived and rigged up on the tubing. After completing a pressure test, they began pumping crude off of a tanker at 4 bpm. The tubing pressured up after 16bbls to 3000 psi. The crew then isolated the well and started monitoring the tubing pressure for the MIT. While the operator was waiting on MIT, he decided to start loading crude from the tanker onto the pump truck for the second part of job. During this time another service company representative stopped by to inquire about the status of MIT. After transfering 44bbls of crude to pump unit, the operator shutdown transfer operations to complete the MIT, but did not shut any valves between the tanker and hot oil unit.He also failed to completely shutdown transfer pump. The slow rate of fluid transfer did not trip the high level alarm. While monitoring pressures for the MIT the LRS helper observed fluid coming out of the hot oil unit vent pipe. He immediatly called the hot oil operator to shutdown all operations. The hot oil operator shut all internal valves on the hot oil unit, and opened tank suction valves to equalize tanks. The LRS Supervisor, the GPB, Wells Supervisor, the Spill Response Technician , and the Drill Site Operator were notified of the situation. An investigation was started at 5:15 by the Well Safety Advisor and LRS Manager. The Spill Response Technician arrived and estimated the spill at 84 gallons. The Spill Response Technician then started to clean up the spill. A spill review was started at 09:00 10/01/02 to find the Root Cause. Upon further inspection the tank high level alarms were found to be operational, but to have failed to activate during this this incident. The LRS Fluid Transfer Policy was also not followed. All fluids and snow were recovered and taken to Pad 3 for disposal. There were no injuries as a result of this incident.	Loader, dump box, sorbent, were used to recover contaminated material.	Contaminated material was brought to Pad 3 for disposal.	ADEC was notified by phone by Todd McGoveran.
9/13/03	2003-IR-618226	Drill Site 03, DS3 sump vent line and under Manifold	Produced Water	84.00	While pigging DS3, were having trouble taking pig receiver down, before job operator did check sump level, tried to set receiver vlv, going to sump several times, on leaving for lunch that's when operator found out that the sump had overflowed, he than checked for alarms because board operator did not call, found nothing in alarm & no hi level lights. Called 5700 and they are in process of cleaning up now	Vac truck, and Super Sucker were used to remove contaminated gravel, and fluids.	Fluids, and gravel were brought to G&I for disposal.	Notifications were made to all agencies.
2/22/04	2004-IR-812043	Drill Site 11, 11-27, FS2/COTU	Methanol/ Water	84.00	Coiled tubing unit rigged up to the Klondike work platform performing a liner job. An unplanned leak of well bore fluids from cold pack-offs and tubing occurred filling the injector sump. The crew was conducting change out, while the Company Representative was doing a walk around of the location he discovered the leaking injector. Operations were stopped. Extra stripper pressure applied along with heat from a heater trunk stopped the leak. SRT and supervisors were notified. It was confined to the Klondike work platform work area and wellhead.	Standing fluids sucked up with a vac truck, and reused. 5 gallons that escaped to pad was scraped up with a loader and placed into a dump box for disposal.	Contaminated material was taken to G&I for disposal.	Notifications were made to agencies.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/21/02	2002-IR-227111	Drill Site 12, DS12 Mini Mod "B"	Produced Water	84.00	Found pin-hole leak in a dead leg located at DS12 Mini Mod "B". 6" PWI supply line feeding 12-2/30, 12-2 was the only well taking PWI. The dead leag is located right next to 12-2 PWI manual blk vlv in Mini Mod "B". the leak is due to corrosion. A small amount of PWI leaked from module door into a containment pit underneath the Mini od.	Water contained in the Mod. was sucked out with a vac truck. The four gallons that were released to the impoundment comingled with existing fresh water and will be taken to Pad 3 during summer dewatering. Testing of impoundment water found salinity to be below detectable levels.	Pad 3	Initial report submitted on 5/23/02.
2/22/05	2005-IR-1252511	Lisburne Production Center, STV Cooler 42-1305 Module 4922, GPMA	Natural Gas Liquid (NGL)	84.00	1840-Board Operator sent Gas Operator to check on STV Cooler Bay 42-1305 that had a low temp alarm in. The Gas Operator found a leak and requested the Lead Operator for backup assistance. The Gas and Lead Operators proceed to block in finfan bay to isolate and depressure. 1846-Lead asks to have Vapor Recovery shut-in. Board Operator shut it down. 1848-Lead asks Board Operator to roll out the Fire Dept for emergency backup. 1849-Called 5300. Called Area Manager. Called day Operators (3)out for assistance. Called Maintenance Techs (2) for assistance. Fire Dept arrived on scene. 1900-Operators arrived. 1910-Maintenance arrived. Area Manager arrived. 1915-STV Cooler 42-1304 put in service. Valves very hard to open. 1920-STV Cooler 42-1305 is isolated. Valves very hard to close. Required servicing/greasing and backseating by maintenance and operations. 2010-Cooler bay bled down to atmosphere. 2015-Fire Dept. released. 2030-Operators finished iso work and left area. The valves on the drain header off the STV Coolers are a normally closed. It is suspected that a valve nearest the Cooler leaked by and filled the 2" drain line. The section of line nearest the cooler is at ambient conditions thus causing the collected liquid to freeze and burst the 2" drain line. A stalactite was then formed as liquid escaped from the failed pipe. Samples of stalactite were analyzed and results included: Flashpoint of 74 deg F; pH of 5.9; Volotile Hydrocarbon of 6.2 volume%.	Laid out absorbent to soak up condensates.Used steam wand and hand tools to remove contaminated material.	Sorbent went to oily waste stream. All fluids went back in to system.	Agencies were notified of release.
3/19/05	2005-IR-1288052	Central Gas Facility, CGF Mod. 4939, LTS-3 GLX "C" exchanger core., CGF/CCP	Natural Gas Liquid (NGL)	84.00	At 03:00 during a regular module walkthrough an NGL leak (dripping) was noticed from the Low Temperature Separator Train #3 (LTS-3) Gas/Liquid Exchanger (GLX) at CGF. Operations began a controlled shutdown but the leak became much worse (streaming) as the train was warming up. At 05:30 hours an emergency shutdown of the train was initiated and at 06:00 hours drains were opened to drain liquids from the exchanger and associated piping to the flare liquid burn pit. The flare was monitored and the assist gas was increased to 100% as soon as visible emissions were detected. Visible emissions were continuous from 06:00 hours until 07:10 hours. After that period of the emergency, the liquid drain rate was reduced and the emissions were only visible for intermittent periods until liquid draining was completed at 13:40 hours. Assist gas was maintained at 100% for the entire flare event. An estimated 185 bbls. of liquids were drained to the flare during the period.	SRT removed contaminated material with a Bobcat, hand tools, and dump box.	Material was brought to G&I for disposal.	Agencies were notified of release.
4/22/06	2006-IR-1805561	Ball Mill Facility, Grind and Inject Facility, Non Process Area	Seawater	84.00	During a flush operation at the mill (running water throught the system with no mud/slurry) the board operator lost direct control of the seawater feed pumps. This caused a sump to overflow and spill into the plant. No fluid escaped the building.	Sweep and squegee fuild back into sump and collect with a wet vac. Fluid placed back into the system.	Run back through the ball mill system.	Agencies were notified of release.
1/3/05	2005-IR-1193711	Lisburne Production Center, Module 4921, GPMA	Produced Water	84.00	Improper Valve Alignment on Drain Line.	Used Wet Vac and Mopped	Put back in to process.	Agencies were notified of release.
2/29/04	2004-IR-819154	G&I Facility, G & I Wells pad , Non Process Area	Methanol/ Water (50/50)	84.00	Fluids were being returned to a tiger tank from a coil unit when the hatch on the tank leaked fluid into the containment area with some seeping out on the pad area. The hatch was found to have two unhinged bolts, and others not tightned to specs.	Vac truck sucked standing fluid's from containment. Material outside of containment was scraped up wiath a loader and placed into a dump box for disposal.	Return fluid's went to Pad 3 for disposal. Material scraped up with the loader was taken to G&I.	Agencies were notified.
5/28/07	2007-IR-2277159	Well Pad V, V-Pad, Well-205, GC2/SAT	Crude Oil	84.00	On May 18, 2007 Tankco tank 021 was moved from L5-12 to V-Pad for a flow back through a well testing unit. The tank was placed into a lined containment dike with two other tanks for the flow back (the tank was the middle of the three). On the morning of May 28, 2007 the Well testers had the first tank filled and had switched to tank-021. There were two fluids vac trucks on site and one took on a load to haul off. The second vac truck was backed into place and when the driver went to connect his hoses he spotted crude oil leaking from the front hatch on tank-021 (the hatch is located in the front of the tank about half way up). The vac truck operator notified the Well testers and they shut down the job. They then notified there supervisor, pad operator and SRT. SRT estimated the release to be 84 gallons of oil base drilling mud and crude oil.	The crude oil that spilled into containment was sucked up with a vac-truck. Residual oil in the containment was wiped up with absorbent pads. The contaminated gravel found under the containment was removed with shovels and oily waste bags.	The oily absorbent pads went to an approved north slope borough oily waste dumpster. Crude oil recovered from the containment went to GC-2 for hydrocarbon recycle. All of the oily gravel is being stored in gravel bin # 3 pending future class II disposal at the grind and inject facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/4/05	2005-IR-1232187	GC-1 Oil Section, GC-1 Skid-14, GC1	Crude Oil	84.00	Deluge system failed filling up sump/skid with water and floating oil to surface of water from sump. All oil was contained with in the skid. This was due to a fusible link failure.	The contaminated firewater and crude oil was removed from the skid with a vac truck, hand tools, water rinsing and absorbent.	Contaminated water and crude oil were taken to Pad-3 disposal facility. Contaminated absorbent material will be taken to an approved NSB oily waste dumpster.	
2/9/06	2006-IR-1719815	West Gas Injection, GPB WGI-03 , Non Process Area	Diesel	84.00	Operation: Bleeding I/A to tiger tank. Operation had been going on regularly every 2 - 3 hrs. Rig hand disconnected bleed line to tiger tank to be able to ship fluids from the mud pits to the tiger tank. Bleed ops resumed and approximately 2 bbls diesel exited open ended line to secondary containment w/ about 2 gallons splashed to pad.	(82) gallons recovered from secondary containment with pumps and put back into tank, (2) gallons recovered from pad, (gravel / snow), area around secondary containment using a loader and scratcher. Gravel and snow was put into a dump box for disposal.	Material to be sent to Grind & Inject for disposal. Material is class 2 (from wellbore).	
6/23/06	2006-IR-1878561	Drill Site 02, DS-2 #2, FS1/SIP/STP	Crude Oil	84.00	On 062206 at approximately 1745, a two-man DHD crew was venting gas from well #2 on DS-2 into slop oil trailer #94-601. They stated that the operation was going well when they noticed that the tank and hose connections were frosting over, which indicated that they were still getting gas. They began to get a little liquid; (which is not uncommon) from the I/A into the tubing and the tank. They were aware of this because the lines started jumping and then stopped suddenly as they were pressured up with liquid. The liquid began feeding the tank at very high volume and crude came out of the overflow spout, into the trailer sump and onto the ground giving them little time to react to the situation. The lines were shut in at once and the proper notifications were made immediately. SRT responded and estimated the liquid volume at 1.5 bbls. in the trailer sump and 0.5 bbls.on the ground. Absorbs were placed to soak up the liquid and were properly bagged.	Fluids in containments vacuumed off with vac-truck. Free standing fluids absorbed. Contaminated gravel removed with bobcat and dump box.	Gravel taken to G&I for disposal. Sorbents to oily waste. Fluids to pad 3 for disposal.	
2/1/06	2006-IR-1711439	Drill Site 02, Well DS2-08 Gravel Pad and Rig Mud Area, FS1/SIP/STP	Drilling Mud	84.00	At approximately 5 am on Feb 1 the centrifuge mud cleaner on Nordic rig 1 overloaded and kicked out the GS coupling. Normally this upset would trigger an emergency shutdown switch and cut the power to the unit and the mud feed pump. It was found during the investigation that a factory mechanic had installed the switch in the wrong position after a recent bearing repair. When the over load occurred, the scroll portion of the machine stopped but the feed pump continued to run. The mud ran through the machine and out the discharge chute and into the cuttings / reserve tank. Approximately 120 bbls of fluid was pumped through the centrifuge and into the tank before it over flowed 2 bbls of drilling mud onto the gravel pad. Pit volume alarms did go off during the event, however the crew attributed the fluid level changes to losses down hole that had been occurring all night. (7 bbls per hour +/-) The frozen mud was shoveled up and placed back into the cuttings tank. Fluids in the reserve portion of the tank were transferred back to the active system and cuttings end of the tank will be emptied and shipped to G&I for disposal. Final clean up of frozen mud will be done following rig demob.	Shovels were used to recover the frozen mud and put back into the tank.	Recovered mud was put back in to the mud tank and will be disposed at G&I.	
8/23/07	2007-IR-2380310	Communications Module, PBOC COMMUNICATIO N MODULE, Non Process Area	Sewage	84.00	AT 14:10 THE COMM CENTER CALLED AND REPORTED WATER RUNNING OUT OF THE BOTTOM OF THE MODULE. I CONTACTED THE PBOC CAMP LEAD TECH AND TOLD HIM WE HAVE A SPILL AT THE COMM BLDG AND TO MEET ME IN THE MECH. RM.. WE OPENED THE FLOOR HATCH AND FOUND WATER LEAKING FROM THE SEWAGE LINE BY THE SEWAGE SUMP. THE PIPE JOINT HAD SEPERATED AT THE NO-HUB COUPLING CAUSING THE LEAK.	VAC TRUCK WAS USED TO VAC STANDING WATER ON PAD AND IN SOFFIT AREA.	FREE STANDING FLUIDS WERE OFF LOADED TO WWTP. GRAVEL WILL BE REMEDIATED.	
9/22/06	2006-IR-1987755	Well Pad K, GPB, WOA, K Pad, Well K-01, GC1	Seawater	84.00	During operations to swap fluid in wellbore and rig pits to a seawater system from a viscosified brine system, a 500 Bbl. tank with a useable volume of 400 Bbls., was overfilled releasing 2 Bbls. of viscosified brine into the secondary containment berm in which the tank is located. Moments before the tank was overfilled, the tank had been strapped and volume contained in the tanks was calculated from strap schedule on the tank to be 325 Bbls. At the time of the tank strap, an additional 47 Bbls. were to be pumped into the tank. Rig crew continued pumping fluid into tank thinking that there was room in the tank for the additional fluid volume. Immediate and proper response by rig personnel limited volume released. Subsequently, notification was made to all required individuals and organizations of release. A pre-job safety meeting was conducted prior to fluid swap operations where hazards were identified and individual responsibilities were identified.	The rig crew sucked up the spilled fluid with a vac truck. Then they washed the tank and containment area with fresh water and recovered remaining fluids with vac truck.	Material was taken to DS-4 Grind & Inject Facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/22/94	1994-IR-88560	Well Pad W	Crude Oil	83.99	Employee was bleeding the 9 5/8" annulus on W-17 into a tiger tank that was located between wells W-17 & 18. He had the bleed hose wired into top of tank, thru grating access. Employee watched bleed into tank for about 30 minutes, it was all natural gas, no liquids. He left bleed going and went to have a quick lunch, when I returned 15 minutes later the hose was still secured in the wire but the end of the hose had come out of the tiger tank and was spraying oil onto W-18 wellhouse and running down onto ground. I immediately shut off bleed and went to check what had happed. I believe that when fluid first started comming out that is was mixed with gas, this made the end of hose buck, causing it to loosen wire & slip back thru it. I went and got a roll of absorbant and covered the area between W-18 and tiger tank this is where the heaviest amounts of oil lay. I htne returned to office and call Randy Hammack the night supervisor and informed him of the spill. The reason I went into the top of tiger tank is because fitting on front of tiger tank were frozen.		Contaminated snow and ice taken to Pad 3. Non-contaminated sorbents taken to North Slope Borough for incineration.	Operator was bleeding down 9 5/8 annulus on W-17 to Tiger tank. He watched bleed for about 30 minutes and was all gas. Left bleed going while went to office to get quick lunch. When returned in 15 minutes, hose had come out of Tiger tank. Hose was wir
2/28/97	1997-IR-89185	Well Pad M	Produced Water	83.99	During thawing operations on M-9 flowline the pad operator was notified by the Field Operations Supervisor that the thawing crew had flowline communication and he could verify communication and freeze protect the flowline for a rig workover. Upon arrival at M-9 he put pressure on the flowline from the well and was about to depart for skid 54 to check on communication when he noticed gas blowing out of the lateral valve box. He then called the Field Operations Supervisor to provide support to remove the insulation box. Then he installed spill containment and depressured the flowline. After insulation was removed he was able to find the source of the leak and stop it by installing a 1/2 inch valve in the body bleed port of the lateral valve. The body bleed assembly was missing from the valve. It is believed that the bleed assembly was not threaded all the way and was pushed out by the expanding ice when the valve froze. Threads on the valve were inspected and found to be undamaged. New bleed assembly was installed properly. The flowline was then freeze protected and safed out for removal of the lateral line.		All material removed from the pit will be injected in a Class II disposal or EOR well.	A bleed seal/plug on the bottom of the lateral valve on Well M-9 came out while the line was being thawed. As the material in the line thawed, it began began to spill into the lateral valve insulation housing. This went undetected until the material was
5/24/96	1996-IR-90875	BOC	Produced Water	83.99	The CC2A injection skid was pumping produced water through the wing valve on the christmas tree. There are two injection lines leading from the ball mill injection pumps through a manifold into the swab valve on the same christmas tree. Check valves are located in both of these injection lines between the manifold and the swab valve. Valves on the manifold leading to the #1 injection pump in the ball mill were left open. As the injection skid began pumping it is believed that an obstruction in the check valve going to the #1 injection pump allowed fluid to seep by. This fluid passed through the manifold, #1 injection pump, and the suction side filter pot. As the fluid hit the filter pot it blew out the filter pot envelope seal. This allowed fluid to escape onto the floor and out of the pump room door. Approximately 2 bbls. of fluid got onto the pad. A guzzler was used to clean up the contaminated gravel. The gravel was processed and injected at the ball mill.		The class II material was disposed of at the ball mill.	Fluids were being injected at the CC2A injection skid. A check valve to the ball mill failed allowing fluids to pass through the line to the ball mill. The fluids then passed through the manifold and into the filter pots. A gasket failed in the filter
11/6/94	1994-IR-85902	GC-3 Pad	Crude Oil	83.99	The oncoming day shift noticed the flame was out on the #3 LP/HP Flare. When he went to light it, he saw an oil mist coming from the tulip and which had sprayed across the flare pad and beyond the fence. The flare was relit, assist gas was added to clean up the smoke. After a 20 minutes, the flare was burning clean again. He also noticed the pilot gas line was damaged below the tulip and not allowing enough gas rate to reach the flare tip. The environmental group cleaned up the flare pad area over the next two days. The total oil spilled was estimated to be two barrels. The latest inspection on the LP Flare line, completed on 11/4/94, showed 1" of liquids/ice. The rover verified the oil mist was coming from the LP Flare system. An in plant inspection of the LP Flare header found that the maint. vent line was open to the LP header is skid IT, with opposing check valves on either side of this valve (one is in backwards). This may have allowed some oil into the LP Flare header when the maint. vent was full of oil two days earlier. The LP Flare header does not flow through a KO vessel and would allow liquids to reach the flare pad.		The contaminated material was transported to Arco Pad 3.	While the flame on flare #3 was out, hydrocarbons entered the line and sprayed out. Investigation has revealed leaks in the purge gas lines on taps #3 and #6 allowed the flare tip on #3 to blow out during Phase II weather conditions.
7/3/97	1997-IR-89427	Well Pad W	Seawater	83.99	Approximately two barrels of seawater spilled onto the gravel pad at well W-6 while coiled tubing work was being performed. The fluid was released when connections inside a reel swivel joint fractured during pumping operations. The approximate pressure in the swivel joint at the time of the failure was 3200 psi. Following the incident, the crew contained the spill and notified the BPX Environmental Department.		Contaminated materialwas taken to ARCO Pad 3.	Seawater was released when connections inside a reel swivel joint on a coil tubing unit fractured during pumping operations. Due to the pressure build up, this caused a pressure seal to release which resulted in the spill.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/17/95	1995-IR-86827	GC-3 PWX Section	Produced Water	83.99	The Weir Pump shutdown on a low-suction pressure due to a shutdown of the only booster pump we had in service. The other pump was down for maintenance. The discharge check valve on the Weir pump did not hold and the seals failed due to excessive back pressure from the sulzer pump discharge. The Weir pump discharge block valve isolating the Weir from the sulzer discharge also failed to seat when blocked in. To depressure and isolate the Weir pump, the produced water system had to be shutdown. A new check valve and manual block valve on the discharge of the Weir pump were installed. The produced water system was brought back on line. Approximately 192 bbls. of produced water was released into the module. Two barrels of this leaked through the subfloor onto the GC Pad.		The used non-hazardous sorbents were bagged and placed in a NSB Oily Waste Dumpster. The contaminated gravel was taken to Pad 3. All liquids were taken to the GC-1 dirty water tank.	A check valve in the produced water system failed which over pressured the weir pump and caused the seal on weir pump to fail. Produced water then leaked onto the floor of the skid, and out of the floor onto the Pad.
9/14/98	1998-IR-98761	Drill Site 13	Produced Water	83.99	"A connection failed on the high pressure switch, releasing produced water into the manifold building. Two barrels escaped to the gravel pad below the module."	Used vacuum trucks to pick up free-standing fluids. Used hand shovels to remove contaminated gravel. - Fluids were taken to Pad 3 on 9/14 for injection. Contaminated gravel was taken to the west pit for future remediation.		"A connection failed on the high pressure switch, releasing produced water into the manifold building. Two barrels escaped to the gravel pad below the module."
1/23/97	1997-IR-89786	GC-3 Oil Section	Crude Oil	83.99	At approx. 05:30 a.m. while bringing on Well C-03, a low-gas alarm was recieved in Skid 7, the Area Operator was notified immediately. Upon verification of a hydrocarbon release, the Skid 7 Operator notified the Comm. Center of a major gas release in Skid 4 and that he needed ERT; a code 'red' was initiated at approx. 05:42 a.m. 10 bottles of Halon where released into skid 4. All personel were accounted for . Remote isolation and depressure of skid 4 & 4A was performed. Upon verification of leak containment, ERTwent into Skid 4 and verified that the Willis Choke on Flln C-82(C-03 Well) had erroded thru and was the source of the leak. Further isolation was accomplished thru the closing of C-82 bulkhead valve. Field Crew, with the assistance of P.E. roustabouts, established a temporary line to bleed down C-82 from the field (limited availability at GC). A spare Willis choke was installed in the old slot and the skid was returned back to service. Bryon Haynes is investigating remedial action before well C-03 will be returned to service.		The crude was recycled through the production system.	Erosion of the Willis choke on well C-03 by produced fluids resulted in a breach which caused gas and crude oil to be released inside Skid 4 module.
10/31/93	1993-IR-89794	Drill Site 12	Seawater	83.99	Pipe off the Arctic dump line coming from the trip tank developed a crack, allowing seawater to flow out onto the ice and snow on the pad.		The contaminated snow was placed in the slop tank and will be used in the drilling process.	Pipe off the Arctic dump line coming from the trip tank developed a crack, allowing seawater to flow out onto the ice and snow on the pad.
5/24/94	1994-IR-87863	Well Pad R	Seawater	83.99	R-29 was acid stimulated, with coil tubing used to spot the acid. While pulling out of the hole, the coil tubing parted at the gooseneck (catastrophic). The double check valve failed, and wellhead pressure forced the contents of the coil out through the part. The blind shear rams were closed, which cut pipe, and the well was secure. Spilled fluid was 84 gals of seawater, which impacted 200 sq. ft. of the pad area.		Taken to Pad-3.	While pulling coil tubing out of the well, the tubing ruptured causing sea water to spill onto the pad and into some puddles on the pad.
4/8/98	1998-IR-100917	Point MacIntyre	Crude Oil	83.99	"During fill cleanout, returns were flowed to a tiger tank which overfilled and spilled to the snow covered gravel pad."	Contaminated snow and ice were scraped up with bobcat and loaded into autocar dump box for disposal - Contaminated snow and ice were taken to Pad 3 East Pit on 4/9/98 for future melting and injection.		"During fill cleanout, returns were flowed to a tiger tank which overfilled and spilled to the snow covered gravel pad."
10/14/97	1997-IR-90444	Well Pad G	Crude Oil	83.99	Gas and well fluids were released into skid 54 a G pad when a check valve failed. See LCIR # 97-BPX-0749.		Sorbent was bagged and placed in North Slope oily waste dumpster.	Crude oil was released into skid when a check valve failed. Cause of the check valve failure is under investigation
2/11/93	1993-IR-86648	Well Pad Y	Seawater	83.99	A valve froze and cracked allowing seawater to leak into the manifold building and drip through the floor onto the pad. A loader was used to pick up frozen seawater, snow, and ice to be taken to T-Pad pit for disposal. The valve was replaced.		Material taken to T-Pad pit.	A valve froze and cracked allowing seawater to leak into the manifold building and drip through the floor onto pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/10/96	1996-IR-89694	Well Pad D	Methanol	83.99	APC, HB&R, and Peak employees were involved in a pump job on well D-1. Seawater had been pumped downhole from a Peak tanker through a filter unit by HB&R. The crews were then going to pump methanol downhole. Prior to pumping the methanol, the decision was made to remove the seawater from the filter unit. However, during the seawater pumping operation another Peak tanker, hauling methanol, had hooked up to the low side of the filter unit. The tanker operator had charged the hose with methanol and opened all of the valves except the valve on the filter unit. When the HB&R employee was preparing to remove the seawater from the filter unit he unhooked the methanol hose, not knowing that it was already charged with pressure. One of the PEAK drivers stated that he had told the HB&R employee not to disconnect the hose because it had pressure on it, but the HB&R employee said that he didn't hear it. When the hose was disconnected, the employee was sprayed with methanol in the face and on his clothing. Employee was immediately given first aid on-site and then transported to BPX medical clinic for further treatment. This incident also resulted in approximately 1 to 2 barrels of methanol being spilled onto the pad. Spilled fluids did not contaminate the tundra or any body of water. The injured HB&R employee had in excess of 10 years of oilfield experience. However, he had only been employed with HB&R on the North Slope since September. This employee was on day 19 of a 21 day tour and had been on shift for the last 17.5 hours. The HB&R manager stated that applicable personal protective equipment was in use and BPX training is current.			Mis-communication between personnel caused a worker to disconnect a hose while still charged with methanol.
3/28/94	1994-IR-98471	Drill Site 13	Seawater	83.99	Supply hose from the low-pressure skid blew off due to a faulty connection.	A supersucker and a loader with a scraper were used to remove the contaminated material. - The contaminated material was taken to the snowmelter pit on 3/29/94		Supply hose from the low-pressure skid blew off due to a faulty connection.
5/6/93	1993-IR-97914	Drill Site 13	Seawater	83.99	Grease fitting on lateral valve on seawater injection line leaked.	Metis/Cleanup		Grease fitting on lateral valve on seawater injection line leaked.
3/22/90	1990-IR-97259	Drill Site 17	Seawater	83.99	There was no catch basin under cuttings trough to catch returns.	YES -		There was no catch basin under cuttings trough to catch returns.
12/20/92	1992-IR-97863	Drill Site 17	Methanol	83.99	A hole in an open top tank leaked material out onto the pad.	Metis/Cleanup		A hole in an open top tank leaked material out onto the pad.
3/3/90	1990-IR-97240	Drill Site 03	Seawater	83.99	Failed to switch flow into empty tank and overfilled a tank.	YES -		Failed to switch flow into empty tank and overfilled a tank.
12/12/94	1994-IR-98430	Drill Site 01	Seawater	83.99	Material overflowed from top of flowback tiger tank.	Metis/Cleanup		Material overflowed from top of flowback tiger tank.
6/16/90	1990-IR-97024	Seawater Injection Plant	Produced Water	83.99	During commissioning of well bleed valve leaked.	YES -		During commissioning of well bleed valve leaked.
4/4/90	1990-IR-100769	Point MacIntyre	Fresh Water	83.99	Sump pump plugged up allowing sump to overflow.	YES -		Sump pump plugged up allowing sump to overflow.
4/10/90	1990-IR-96961	Drill Site 13	Produced Water	83.99	Overfilled divert tank while pigging line.	YES -		Overfilled divert tank while pigging line.
4/29/97	1997-IR-98676	Seawater Injection Plant	Seawater	83.99	The O-ring on door of pig launcer failed.	Used a bobcat bucket to pick up contaminated snow. - Contaminated snow was taken to Pad 3 East Pit on 4/29/97 to be held for future melting and injection.		The O-ring on door of pig launcer failed.
4/12/90	1990-IR-96968	Drill Site 03	Seawater	83.99	Flooded the shaker and then the mudbox.	YES -		Flooded the shaker and then the mudbox.
5/19/90	1990-IR-96987	COTU Facility	Crude Oil	83.99	Corrosion leak in residual crude line.	YES -		Corrosion leak in residual crude line.
11/25/91	1991-IR-97593	Drill Site 14	Crude Oil	83.99	Leak on flange on the tiger tank.	YES -		Leak on flange on the tiger tank.
2/27/95	1995-IR-98569	Drill Site 02	Seawater	83.99	*Tank was overfilled.	Contaminated snow was removed by supersucker. - Contaminated snow was melted and re-used in methanol mixture for P & A on 2/28/95.		*Tank was overfilled.
7/31/90	1990-IR-97061	Seawater Injection Plant	Seawater	83.99	Sprayed from a vent.	YES -		Sprayed from a vent.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/6/89	1989-IR-96811	Drill Site 14, Not specified	Crude Oil	83.99	Material sprayed out of tank vent caused by a high level and rate.	Not specified	Not specified	Not specified
10/17/89	1989-IR-96792	Drill Site 06, Not specified	Seawater	83.99	Valve not normally used was left open and not checked.	Not specified	Not specified	Not specified
6/30/87	1987-IR-96197	Drill Site 03, Not specified	Crude Oil	83.99	Holse in coil tubin	Not specified	Not specified	Not specified
10/31/80	1980-IR-96033	Drill Site 04, Not specified	Crude Oil	83.99	Relief valv release	Not specified	Not specified	Not specified
11/3/85	1985-IR-95935	Drill Site 15, Not specified	Crude Oil	83.99	Hose clamp came fre	Not specified	Not specified	Not specified
11/22/82	1982-IR-96096	Drill Site 13, Not specified	Crude Oil	83.99	Mist from cleaning	Not specified	Not specified	Not specified
10/9/87	1987-IR-96370	Pad 3, Not specified	Crude Oil	83.99	Overflow from tank	Not specified	Not specified	Not specified
7/17/85	1985-IR-95930	Drill Site 09, Not specified	Crude Oil	83.99	Overfilled tanker	Not specified	Not specified	Not specified
6/3/82	1982-IR-96078	Drill Site 17, Not specified	Diesel	83.99	Overfilled barrel	Not specified	Not specified	Not specified
3/10/89	1989-IR-96918	Flow Station 2, Not specified	Crude Oil	83.99	Tanker overfilled	Not specified	Not specified	Not specified
2/23/87	1987-IR-100707	Lisburne Production Center, Not specified	Crude Oil	83.99	Hose disconnected	Not specified	Not specified	Not specified
5/18/84	1984-IR-96140	Drill Site 05, Not specified	Diesel	83.99	Discharged mist	Not specified	Not specified	Not specified
7/3/88	1988-IR-96451	Drill Site 05, Not specified	Seawater	83.99	Backflowed tank	Not specified	Not specified	Not specified
10/13/88	1988-IR-96528	Drill Site 07, Not specified	Diesel	83.99	Dike overflowed	Not specified	Not specified	Not specified
11/11/87	1987-IR-96379	Drill Site 09, Not specified	Seawater	83.99	'O'-ring leaked	Not specified	Not specified	Not specified
5/21/88	1988-IR-96352	Drill Site 09, Not specified	Diesel	83.99	Trailer off pad	Not specified	Not specified	Not specified
7/8/83	1983-IR-96120	Drill Site 16, Not specified	Diesel	83.99	Hose came loose	Not specified	Not specified	Not specified
4/2/86	1986-IR-96181	Drill Site 17, Not specified	Diesel	83.99	Valve left open	Not specified	Not specified	Not specified
3/19/88	1988-IR-96610	Drill Site 17, Not specified	Diesel	83.99	Overflow to pad	Not specified	Not specified	Not specified
12/19/86	1986-IR-96175	Flow Station 1, Not specified	Crude Oil	83.99	Valve left open	Not specified	Not specified	Not specified
3/12/89	1989-IR-96920	Flow Station 2, Not specified	Crude Oil	83.99	Hose discharged	Not specified	Not specified	Not specified
3/13/86	1986-IR-96179	COTU Facility, Not specified	Crude Oil	83.99	Valve failure	Not specified	Not specified	Not specified
5/6/76	1976-IR-95968	PBOC, Not specified	Crude Oil	83.99	Crude in snow	Not specified	Not specified	Not specified
11/4/88	1988-IR-96259	Drill Site 01, Not specified	Crude Oil	83.99	Valve opened	Not specified	Not specified	Not specified
3/8/89	1989-IR-96916	Drill Site 03, Not specified	Seawater	83.99	Valve leaked	Not specified	Not specified	Not specified
3/14/89	1989-IR-96926	Flow Station 2, Not specified	Seawater	83.99	Valve leaked	Not specified	Not specified	Not specified
9/28/86	1986-IR-96159	Seawater Injection Plant, Not specified	MEG	83.99		Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/1/95	1995-IR-87278	Well Pad X	Drilling Mud	83.99	Rig crew was tripping in the hole and had stopped to fill the drill pipe. It took too many strokes to fill and the driller investigated. He found a valve was left open discharging 2 bbls of mud to the pad. Derrickman had left a 2" Demco valve open following injection operation.		All exempt contaminated materials were taken to the CC-2 ball mill and injected for disposal. Additional contaminated materials picked up after rig mover were taken to CC-2 ball mill and inject for disposal.	
6/8/96	1996-IR-91598	Well Pad E	Diesel	83.99	An inner annulus pressure test was being preformed by HB&R for the upcoming NRWO CTU cement squeeze work on well E-16. A Peak vac truck was hooked up feeding produced water to the pump truck. An air actuated valve inside the pump truck failed to close on the inlet side resulting in the PW that was being pumped to communicate with the inside diesel tank of HB&R resulting in the tank overflowing which created a 5 bbl diesel / PW spill. The fluid was contained on the pad and the environmental group was immediately notified and the spill was cleaned up. The spill was estimated to be 3 bbls of produced water and 2 bbls of diesel.		The non-exempt gravel is being sampled for DRO/TCLP (benzene). UPDATE: The gravel passed testing and is non-hazardous. It was taken to Arco Pad 3 for disposal.	
10/28/93	1993-IR-86705	Well Pad P	Seawater	83.99	The Peak driver was filling mulitple seawater tanks. Normal procedure is to stop filling when the water is 10" from the top to allow room for expansion if fluids aer subsequently heated. When the driver observed the level was about 12" from the top, he walked across the top of the neighboring tanks to check the levels. The tank being filled was then observed overflowing. The contaminated material was picked up with a loader and taken via dump truck to Arco Pad 3. The supervisor spoke to the driver reminding him about close monitoring while filling tanks, and discussed ways to prevent overfills from happening. Tank filling guidelines were modified such that tanks were filled within 15" from the top rather than 10".		The contaminated material was taken to Arco Pad 3.	
9/22/96	1996-IR-89800	Well Pad B	Methanol	83.99	On well pad B, the B-9 flowline ruptured do to weaking of pipe walls from a previous freeze up problem (ice plug) in April of this year. This is a process line and was being cleaned/freeze protected for abandonment. Methanol was pumped through the line as part of this process. The line rupture at approximately 1000 psi.		Exempt fluids and solids were taken to Pad 3.	
7/28/98	1998-IR-89946	Well Pad B	Seawater	81.99	Approximately 82 gallons of seawater was spilled onto the gravel pad at well B-12. The spill resulted when a tanker truck was overfilled causing fluid to flow out a vent line. Investigation revealed that a set screw for the level indicator had come loose causing the indicator to read a lower fluid level than was actually present.		N/A	Approximately 82 gallons of seawater was spilled onto the gravel pad at well B-12. The spill resulted when a tanker truck was overfilled causing fluid to flow out a vent line. Investigation revealed that a set screw for the level indicator had come loos
9/29/06	2006-IR-2006850	Well Pad B, Portable heater diesel spill to gravel and secondary containment near B-16, GC3., GC3	Diesel	80.50	A contract maintenance employee observed diesel fuel leaking from an operating portable, indirect heater. He shut off the heater. He called ext 5700 to report the spill. Approximately 1/2 gal leaked on to the gravel and 80 gal was captured in the secondary heater containment. The information on the heater: Model ES 700; built in 2004; operating hours = 14,000; GPB # 88-789. The fuel leaked at a fitting from the fuel pump for the combustor. This is a very unusal failure and very infrequent.	Hand tools were used to remove contaminated gravel. Sorbents were used to wipe affected area of heater.	The field oiler came and removed all the diesel from the containment area and was recycled. The gravel was taken to an SRT accumulation bin at Santa Fe pad and will be taken to Pad 3	The inital verbal report was called in by the WOA environmental advisor on 10/2/06 at approximately 1:05 PM
2/5/02	2002-IR-163482	CWTF/ CSTF, East side of CSTF at truck discharge connection point.	Sewage	80.00	When vac truck was pressured up to offload at facility, a hatch cover leaked releasing sewage onto the pad. The release was noticed by the vehicle operator who was monitoring his gauges and hose connections. He relieved the pressure on the tank, and stopped the leak.	A loader was used to scraped up the spilled material from the snow covered gravel pad.	Material was taken to Pad 3 disposal facility	There had aleady been an earlier unloading of truck at CSTF at a higher psi before this incident with no problems.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/7/06	2006-IR-1683812	Pad 3, From the central guard gate to Pad 3., Non Process Area	Seawater	80.00	Vac truck driver had loaded coil cement returns at DS16-14 for the second trip of the day, stopping for one half hour at the Sag River Bridge to wait for a security escort across the bridge. The driver proceeded through Deadhorse, then the central security gate, with the agitator on and the scrubber closed. As he arrived at Pad 3, dispatch notified the driver that there was fluid leaking out of the back of the truck. Security at the central guard gate had noticed a fluid trail. The driver positioned his truck to offload and determined that there was a trail of fluid. Appropriate notifications were made. The driver placed absorbs in the rear doghouse, and a containment under the doghouse. The sump was full. It was determined that the packing around the packing flange had rolled over due to wear, created voids in the packing material. 80 gallons of seawater mix was released over about a two mile distance on the Spine Road, with the majority of it at the central guard gate and Pad 3.	Heavy equipment (A loader and a grader) was used to recover the contaminated snow on the road and at Pad-3 and placed into dump boxes for disposal.	Contaminated snow was taken to Pad-3 for disposal.	This was wellbore returns from a cement job, including 70% seawater, 20% diesel, and 10% methanol.
6/24/04	2004-IR-957656	Well Pad C, C-17, GC3	Crude Oil	80.00	When testing well casing for leak a nitrogen gas bubble pushed crude up and out the well flutes causing a spill. This event was anticipated though the volume was greater than expected.	A vac truck was dispatched and vac'd out all standing liquids. Sorbent material was used to clean up the rest of the oil on the walls and shovels were used to remove contaminated gravel.	All the liquids were taken to GC-2 for hydrocarbon recycle. The sorbent material was taken to an approved NSP oily waste dumpster.	The initial verbal notification was called in on 6-24-04 at 11:45
1/28/05	2005-IR-1222862	WSW, GC-1 skid 326, GC1	Crude Oil	80.00	- 23:00 Skid 326 suction pressure gauge blew out to the slop oil pump. Dumping Oil into the skid	Vacuum equipment was used to remove standing liquids. Sorbents were used to wipe other affected areas.	The liquids were placed into the facility sump. The sorbent material was disposed of in an approved oily waste dumpster.	
1/9/07	2007-IR-2118998	Well Pad V, Nabors 9es V-pad, Super sucker was parked next to cuttings box next to pit modual., GC2/SAT	Drilling Mud	80.00	Super Sucker was in the process of loading cuttings from cuttings tank and failed to realize that the gauge was froze up and overfilled the truck allowing the material to enter the side box of the vacum unit and leaked 40 gal of drill cutting on the pad and 40 gal in containment.	Material was allowed to freeze then it was scraped up and placed back in the cuttings tank.	The contaminated material will be taken to DS-4 Grind & Inject facility.	
9/4/05	2005-IR-1530980	Drill Site 03, Well 3-32 Test Divert actuator in the Drill Site 3 Manifold Building, FS2/COTU	Hydraulic Fluid	80.00	UT inspector discovered leaking fluid and contacted the DSO. DSO travelled to DS3 from DS9 and found the swedge lock fitting had failed on the closing solenoid of the test divert valve hydraulic actuator.	Barrel vac and sorbent was used to remove Hydraulic oil from Mod. floor.	Liquids sucked in barrel vac were returned to sump for later disposal.	
12/12/04	2004-IR-1165958	Drill Site 04, Drill site 4, 4-27 SWI injector slot, FS2/COTU	Seawater	80.00	SWI header leak on the upstream flange of 4-27 injector inlet divert valve. Leak due to internal corrosion.	Recovered with vacuums and recycled into the DS-4 manifold sump	Recovered fluids were added to the DS-4 sump for recycle.	
11/24/01	2001-IR-137119	Flow Station 2, FS2 Module 4912 (INSIDE)	Crude Oil	80.00	Approximately 60 - 80 gallons of oil and water released on the floor of module 4912 due to a sample tap being inadvertently left open. The sample sink filled and overflowed on to the floor.	Vacuumed up oil and cleaned up residual with absorbent material.	Absorbent pads were disposed of in oily waste dumpster	
11/4/05	2005-IR-1605001	G&I Facility, Supersucker offloading tank at G&I facility, Non Process Area	Seawater	80.00	An employee was thinning a load of Supersucker mud in the offload tank. He left the 2"valve open to refill the tank and left the area for another task. He became distracted and failed to return in time to prevent an overflow of about 80 gallons into secondary containment and onto the gravel pad. There was an SOP in place for this procedure but it was not followed. The spill was immediately reported to all supervisors and to the client and SRT.	Contaminated gravel scrapped up and contained for final disposal by SRT	Class one disposal for contaminated materialsby SRT	
6/29/79	1979-IR-96009	East Dock, Not specified	Diesel	79.99	Frk lft dropped bar	Not specified	Not specified	Not specified
11/25/88	1988-IR-96553	Drill Site 12, Not specified	Seawater	79.99	Expansion overflow	Not specified	Not specified	Not specified
2/19/88	1988-IR-96597	Drill Site 13, Not specified	Crude Oil	79.99	Sprayed from vent	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/26/94	1994-IR-86355	GC-1 Oil Section	Crude Oil	79.99	The glycol cooling water system at GC-1 is contaminated with crude oil. The operations staff set up a pump that skimmed oil from the top of T-157, via a hose attached to the high level Jo-bell bleed valve. When the tank level dropped, firewater was added to the system to maintain the T-157 surge tank level at the top of the sightglass so the skimming process could continue. This batch system was going on for the last two days. At 23:00 the oil operator checked outside skid 25 and saw that oil had overflowed from T-157, spilled down the skid wall and into the dike area. The wind sprayed a 50' by100' mist over the snow and nearby piping. The wind had not been blowing for several hours so we're sure the spill occurred earlier. We estimated the dike contained 10 to 15 gallons and wind carried away another 4 gallons. The operators may have overflowed in while it was being filled, but they could easily see the liquid level and had been batching firewater in for several days.		Oil in the liner will be vacced up and put in the dirty water system at GC1. The contaminated gravel was taken to Arco Pad 3.	
10/23/95	1995-IR-91595	Well Pad G	Methanol	79.99	Helper finished using hose for methanol recovery and forgot to close the valve on the pump-in sub. When he opened the swab valve on the tree, the well pressure displaced the methanol in the hose with gas. The hose was still connected to the methanol tank, and methanol sprayed out the open hatch on top of the tank.		The recovered fluids were used on this job. The exempt snow and gravel was taken to Arco Pad 3 for disposal.	
11/23/94	1994-IR-86033	Well Pad C	Seawater	79.99	Ref: Fire LCIR 94-PBU-1449; Spill Report No. 94-142: A fire ignited on a Nowcam Coil Tubing unit working on C-32. Approximately 80 gallons of seawater was used to initially extinguish the fire. The seawater spilled onto the pad when fresh water was applied by the BP Fire Team. Approximately three gallons of hydraulic fluid was also spilled. The exact cause is of the fire is under investigation.		The contaminated material was taken to T Pad pit.	
9/16/00	2000-IR-95379	Drill Site 07	Crude Oil	79.99	Well 7-8 had completed a tubing displacement- corrosion treatment downhole the day before the incident (9/15). Investigation is in process to determine the nature of the leak and subsequent spill. Update 9/18/00- Wellhouse was steamcleaned to allow inspection of the wellhead. Visual examination revealed a pencil-sized hole eroded in the flowline, inside the wellhouse, directly opposite of the Cosaco flange (corrosion probe). The corrosion coupon had been removed to install annular production string.	Hand tools and heavy equipment	Pad 3	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/23/04	2004-IR-1181720	Seawater Injection Plant, Module 49101, SWI pump 15101 skid, FS1/SIP/STP	Lube Oil	75.00	A lube oil leak was observed in the 15101 pump module and the unit immediately shut down. A short time after the pump was stopped, a fire ignited near the power turbine. The operator successfully extinguished the fire with a hand held extinguisher. ERT was not called out.	An air-powered vacuum was used to pick up the majority of the spilled material. Then absorbent pad were used to wipe up the area.	Recovered fluids will be put in the facility sump that goes to Flow Station 1 for recycle. The contaminated absorbents will be disposed as oily waste.	This is not an immediately reportable spill per 18 ACC 75.300 (a)(2)(B). BP had 48 hours to report spill. This spill was reported on same day it occurred. Spill was initially estimated to be below 55 gallons when SRT first arrived on site. During cleanup, and after removing grating around a turbine, SRT discovered standing lube oil which resulted in total estimated volume of released material to exceed 55-gallon reporting threshold. For this reason, this spill was reported to Environmental Advisors as an immediately reportable at 11:40 a.m. This spill was reported to ADEC at 11:49 am. Environmental Advisor East explained reason for late reporting of this spill to ADEC in afternoon on December 23. The ADEC Environmental Specialist did not want any follow up information beyond phone call. The initial spill report, which was faxed to ADEC, also described that additional puddle of oil was discovered after a grating was removed. There were two lube oil spills at SIP on December 23 (ref. also IR #1181738). Cause and time of spill were intitally reported to be those associated with non-reportable spill which occurred at 9:30 am. This reporting error was corrected immediately after its discovery, and was followed up with fax reports.
7/2/06	2006-IR-1890857	Seawater Treatment Plant, Glycol plate heat exchanger 13101, FS1/SIP/STP	MEG	75.00	Plant was shut down to drain and repair a corrosion leak on a seawater pump spool piece. As the glycol and the heat exchanger plates cooled while the plant was shut down, the glycol leaked out of the plate gaskets and into the glycol recycle drain system diked area. However, the drain system for 13101 exchanger was plugged, allowing warm glycol to overflow the containment and onto the floor. Further, the downstream block valves for the heat exchangers were closed, but not the upstream side, allowing a larger volume of material to be released. Around August 8, 2006 it was determined that the recovered glycol that was thought to have been recycled through the plant system was sent to the contaminated water system which in turn was discharged at the main marine outfall. It was determined that this event was not a violation of the NPDES discharge permit however it does trigger a requirement to review the BMP for preventive actions.	Vacuumed up glycol. Mopped up remainder with absorbant pads.	Absorbent pads sent to Oily Waste Disposal Facility as non-hazardous waste (glycol lab data on file). While recovered glycol fluids were initially thought to have been recycled, they were actually sent to the contaminated water system in the STP facility and subsequently discharged to the main marine outfall.	Review of discharge event to main marine outfall by BPXA Water Technical Authority was determined not to be an NPDES violation.
5/16/03	2003-IR-512150	Niakuk Pad, Niakuk pad outside module 4901.	Scale Inhibitor	75.00	While making rounds on drillsite, noticed chemical leaking from fitting on to pad.	SRT was notified. SRT cleaned site in accordance with input from Operations & Environmental and by utilizing ADEC approved plan.	All fluids, and contaminated gravel was sampled for flash point, and Totals for Methanol&Glycol. Fluids, and gravel were brought to Pad 3 for diposal.	Confermation samples were reviewed by ADEC and approved disposal,and closing out of Spill. NOTE: This is the Final Report.
5/14/02	2002-IR-226014	Central Compressor Plant, CCP Pad	Sewage	75.00	The flush handle on the enviro-vac next to the VECO dry shacks got stuck and allowed the urinal to run continous. The holding tank filled up and over flowed onto the frozen gravel pad.	Bobcat and dump box were used to remove contaminated material.	Material was brought to T Pad for Disposal.	Verbal notification was made to Kathy at ADEC Division of Air and Water, at 907-451-2130 on 5/15/02

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/19/07	2007-IR-2443919	GC-2 Gas Section, Outside GC2 skid 42	Produced Water	75.00	While the unit operator was making routine rounds he discovered produced water leaking from under the insulation of a pipe in the pipe rack outside the skid. He immediately isolated the leak at both ends and the leak stopped. He notified the lead operator who made the proper notifications.	A bobcat and handtools were used to recover the ice and contaminated gravel.	All the ice and gravel was taken to DS-4 G&I facility.	The verbal notification was made on 10/19/07 at approximately 20:10 hours.
1/5/07	2007-IR-2112752	Drill Site 03, DS3 methanol tank / pit, FS2/COTU	Methanol/ Water (50/50)	75.00	Over filled methanol tank and ran about 20 gallons in 1/2 drum, with some spray outside the drum. - Crude and meth / water mix.	Hand tools were used to recover the contaminated snow in the containment pit. The snow was bagged up and will be put in containers and melted so it can be reused for freeze protection.	Contaminated snow will be melted down and reused for freeze protection.	NOTE: Fluid's were melted and used as freeze protect at PM 2 # 50.
4/3/01	2001-IR-101155	COTU Facility	Diesel	75.00	Fuel Tanker was overfilled due to butterfly valve failure. Number #1 compartment was loaded and hatch was closed. Changed over to #2 compartment (2100 gal capacity) and called for 1950 gallons. When meter read 1500 gallons driver went outside shack to go up tanker ladder and noticed fuel coming out overflow tube. Driver called control to shut down operations, grabbed absorbents to plug overflow tube on top trailer and placed absorbents under trailer and caught overflow in drip pans. Primary Cause identified as butterfly valve failure. Contributing causes was internal valves were open and compartment #2 was not rechecked when smitched compartments. ON 03/03/01 the butterfly valve had been pressure tested OK. After incident driver performed hydrostatic test of valve and it leaked. Valve to be replaced at VECO shop prior to next usage.	Pumped fuel from containments back into truck (approx. 65 gal.). Loader and hand tools used to recover product and place into tank for melting.	Diesel skimmed from suface of melted snow with absorbents. Absorbents disposed of as hazwaste. Fluids tested for benzene and injected at pad 3.	This information is being provided to ADEC per 18 AAC 75.300.
3/31/06	2006-IR-1783396	PM-1, P1 Drill Site, GPMA	Corrosion Inhibitor	75.00	During routine daily safety checks at Drill Site P1 the operator opened to the door to the corrosion inhibitor pump skid where CI was spraying out of the side of the booster pump. The pump was turned off, the up and down stream block valves where isolated, and the pump breakers where open. The spill was immediately called into x5700 and the SRT Lead Tech was on site within the hour. Upon initial investigation it appears the carbon steel booster pump internal pressure relief threads where corroded allowing the CI to leak to atmosphere. The booster pump pulls from an outside IMO tank to supply the main CI pump to treat the 24" common line to LPC. (IR-1783396 replaced the deleted IR-178052)	Fluids in the primary containment were recovered with a barrel pump and put into a drum to be reused. The fluids in the secondary containment (the floor) were recovered with a drum vac. Sorbents, rags, and chem clear were used to wipe up the floor and pump.	Fluids recovered in the primary containment will be used for thier intended purpose. Fluids in the secondary containment were sent in for hazardous waste disposal. Lightly contaminated sorbents were disposed as oily waste.	
2/4/05	2005-IR-1232239	Well Pad S, S-213a, GC2/SAT	Hydraulic Fluid	75.00	While Moving Doyon 16 off of S-213a hydraulic fluid was released from around hydraulic pump system filter. 70 gallons was released into secondary containment, 5 gallons contacted pad.	Hydraulic fluid in secondary containment was vacuumed up and placed into drums to be recycled. Hydraulic fluid that contacted snow on pad was was removed with hand tools and placed into oily waste bags. Risidual on floors and walls were wiped down with absorbent materials.	The recovered liquid will be recycled. The contaminated snow has been taken to T-Pad storage pit. The contaminated absorbent material has been taken to an approved NSB oily waste dumpster.	
8/7/06	2006-IR-1936256	WSW/GLT, Skid 71 at GC-1 on floor, GC1	Turbo 32	75.00	Rover was called to investigate low compressor pressure in skid 71 on K-3200 GLT machine. Operator found 1/4" tubing seal oil sample line had parted from the compression fitting, leaking high pressure seal oil onto the skid floor. Operator closed a ball valve to isolate the leak and called the control room and supervisor. Rover then called the spill hotline to make a report.	The Seal Oil was cleaned up from the skid floor with sorbents and air operated wet-vac.	The material that was sucked up was returned to the facility for recycle. The sorbents were taken to an oily waste dumpster.	
10/21/04	2004-IR-1098525	Drill Site 02, DS2 manifold building hydraulic header from 2-2 divert valve., FS1/SIP/STP	Hydraulic Fluid	75.00	FS1 board operator made notification that hydraulic system trouble alarm was locked in at DS2. Upon inspection found the hydraulic line from the main hydraulic header to 2-2 test divert had broken off at the tubing connection. Blocked in and secured, notified spill response. ACS cleaning up fluid which was contained in the module.	Most of the oil was recovered with barrel vacuum, and the rest was wiped up absorbent pads.	Recoverd oil was put in the oil/water seperator system for recycle and the absorbant pads were disposed as oily waste.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/20/04	2004-IR-1058680	GC-2 LPS Section, GC-2 skid 460, GC2/SAT	Lube Oil	75.00	Overhaul crew was tasked with performing a routine water wash, and oil filter change on the K7000 LPS compressor turbine driver. Along with this task the replacement of the second stage nozzle hydraulic ram was also scheduled due to a leaking cylinder seal. Upon arriving the site the Overhaul TR. was informed by operations that the unit was not ready to be safed out due to inadequate cool down and that the oil circulation system was still pressurized. The decision was made by the Unit Operator and the Overhaul TR. that preliminary work only could be conducted until full safe out was completed. The preliminary work that was agreed on was to blind the fuel gas line and replace filters. An opening and blinding, and a unit work permit were issued which documented the work to be performed per the conversation. The Overhaul crew arrived to the worksite and walked the job with operations and the Overhaul Lead Tech. prior to commencing work. At this point everyone involved knew that the oil system was still pressurized and the unit was still in the cool down mode, and was not completely safed out. They then split off into work groups and started to perform the preliminary tasks at hand. One crew member decided that the mounting bolts, total of four, on the second stage nozzle hydraulic ram could be loosened from the mounting plate in preparation for the upcoming replacement and asked another crew member to assist him. Three of the four bolts had been loosened and while loosening the forth bolt, pressurized oil (1200 PSI) began spraying out in between the ram and mounting plate. Approximately 75 gallons of lube oil was lost during the incident which partially covered the employee loosing the bolts. The employee was seen by WOA medical and no treatment was needed.	A vac unit inside the facility was used to remove standing liquids. Sorbent material was used to wipe down remaining small quanities.	The sorbents were taken to an approved oily waste dumpster. The liquids were recycled at the GC.	
11/25/02	2002-IR-374355	COTU Facility, COTU Fuel Loading Terminal	Diesel	75.00	Fire valve failure on tanker compartment causing diesel fuel spill.	Recovered material with loader/hand tools and placed into dump box for disposal.	5 cubic yards of material taken to Pad 3 for disposal.	
6/22/99	1999-IR-94070	Well Pad W	Diesel	74.99	At approximately 1300 hours July 4th the WSA Operations Manager (OM) received a call from the BP spill tech stating that the W-Pad operator had called about a spill he found during routine well checks by the W-24 well house. The BP spill tech had visited location, marked the spill and determined that it was approximately 25 gallons of diesel. By the W-Pad operator s records the last operation performed on W-24 was a Coil Tubing acid treatment (June 22) and flowback through Trico (June 23&24). WSA OM did not have a record of a spill occurring on that treatment. WSA OM informed PBU Well Ops TL and WSA Safety and the investigation team proceeded to W-24 to start investigating if there had been a spill cause by the well operations group. The location of the spill in relation to old tire tracks on location lead the team to believe that if the spill did happen when well operations was being performed, then it would have been from the flowback unit. After checking the location condition reports from the coil tubing operation and flowback unit, no spill or spot had been outlined. The group then proceeded to Price Pad, were the flowback unit had been parked after the W-24 acid flowback job to inspect the unit for signs of a discharge. The approximate location on the unit to the spill was a on board fuel tank. The outside of the unit showed no signs of diesel or seepage. All but one of the Trico employees on duty at the time of the acid flowback had left the slope R&R. This employee was asked to meet the team at Price Pad to answer some questions. When asked if there was a spill on W-24 during the acid flowback the employee stated "yes there had been". When asked who knew he stated "his supervisor". The spill occurred when a one gallon container was being filled from the on board diesel tank. The container holds diesel used to clean up the unit s sample tubes used during a flowback operation. A employee started filling the container just before shift change and then left it unattended to prepare for shift change. After shift change, the crew on location noticed the diesel overflowing from the container. The valve was secured and notified their supervisor.Their supervisor came to location to appraise the situation. The supervisor observed that the diesel level in the fuel tank was just under half full. Earlier when he had been on location it was just above half full so he assumed that a small amount had ran out of the tank. He did not find out until the next day that the fueler had been on location filled the tank the afternoon before the spill occurred. The supervisor and one employee shoveled the contaminated gravel into approximately eight five gallon buckets and placed it into a nearby well cellar (W-21). Clean gravel was then spread over the spot on the well pad. There was no notification of the spill by the supervisor to BP or WSA management at this time. The investigation team reconstructed the incident from telephone statements given to Trico s Anchorage based manager by the supervisor and employee on duty at the time of the incident. The statements to their manager concurred with each other.		Approx. 100 cubic yards of non-hazardous contaminated gravel was taken to ARCO Pad 3. The cleanup was complete 7/10/99.	Field screening by BPXA Environmental indicates background levels reached. 5 soil samples were obtained on 7/10/99 and submitted for laboratory analysis for spill closure (attached). Soil will be removed from the W-21 cellar during the week of 7/12/99.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/7/95	1995-IR-98550	Seawater Injection Plant	Seawater	74.99	Material leaked from a sump drain line into the soffit area under module and onto the gravel pad. The seawater froze in place as it dripped through the soffit. Corrosion of the drain header was found to be the cause.	Chipping bar and a bobcat were used to dislodge the seawater ice block. A bobcat with a scratcher was used to remove surface contamination from the gravel pad. - The frozen material was taken to Pad 3 West Pit on 12/7/95 to be held for future remediati		Material leaked from a sump drain line into the soffit area under module and onto the gravel pad. The seawater froze in place as it dripped through the soffit. Corrosion of the drain header was found to be the cause.
12/30/96	1996-IR-98659	Pad 10	Methanol	74.99	"While loading material from source tank into transport tanker, driver left the top of tanker during a pumping operation and the receiving tank overflowed into a lined containment area."	"A loader was used to remove the contaminated snow from the lined area. - The contaminated snow was melted and reused as freeze protect in well work operations, directly following the incident. See additional information below."		"While loading material from source tank into transport tanker, driver left the top of tanker during a pumping operation and the receiving tank overflowed into a lined containment area."
1/27/00	2000-IR-100613	Lisburne Production Center	Lube Oil	74.99	"PSV Bonnet was incorrectly installed following maintenance, due to extremely tight physical location spilling lubing oil."	Mopped up product with absorbents and transported to oily waste dumpster at LPC.	LPC Oily Waste Dumpster	"PSV Bonnet was incorrectly installed following maintenance, due to extremely tight physical location spilling lubing oil."
5/26/93	1993-IR-97936	PBOC	Sewage	74.99	Sewage sump overfilled due to faulty float switch.	Metis/Cleanup		Sewage sump overfilled due to faulty float switch.
9/28/91	1991-IR-97576	PBOC	Sewage	74.99	Check valve on the sewage collection line failed.	YES -		Check valve on the sewage collection line failed.
5/14/82	1982-IR-96075	COTU Facility, Not specified	Diesel	74.99	Shut-off valve brok	Not specified	Not specified	Not specified
10/11/87	1987-IR-96371	COTU Facility, Not specified	Diesel	74.99	Prior spill materia	Not specified	Not specified	Not specified
11/15/82	1982-IR-96094	Flow Station 1, Not specified	Crude Oil	74.99	Valve vibrated open	Not specified	Not specified	Not specified
7/19/87	1987-IR-96205	COTU Facility, Not specified	Diesel	74.99	Tanker overfill	Not specified	Not specified	Not specified
10/30/04	2004-IR-1108472	Drill Site 15, DS 15 # 41, FS3	Crude Oil	74.00	Rigged up with E-Line to add perforations to 15-41b. Perf gun was hanging in lubricator, pumped 5 bbls. meoh & 25 bbls. crude into well to reduce underbalance. Bled off gas from well down to 1500 psi. Bleed off was shut in & RIH with perf gun. At approx 2700' of depth it was discovered that the bleed tank (# 94-613) had overflowed with crude oil. Operation was stopped notified SRT, co. rep. & HSE. After meeting with spill response. Absorb was laid over crude oil on ground around tank. A mist of oil had drifted from tank & covered a sizeable area with a mist of crude. This was swept back around the bleed trailer to keep from spreading to a larger area. The bleed trailer was wiped down with absorb & placed in oily waste bags. A vac truck recovered crude from spill pan on trailer & evacuated the trailer. The perf gun was then pulled to surface & unit rigged down. Crane was wiped down & moved ahead. Well was secured. Hoses & cables wiped down & spot cleanup around well. Moved logging unit & crane off location.	Bobcat, Loader with Trimmer, and dump box were used to remove material.	Contaminated material went to G&I for disposal.	Agencies were notified.
7/26/79	1979-IR-96013	Drill Site 13, Not specified	Crude Oil	70.99	Oil spry frm seprtr	Not specified	Not specified	Not specified
2/4/05	2005-IR-1231832	Seawater Injection Plant, 4911 utilidor 24" dirty water line, outside shop doors., FS1/SIP/STP	Seawater	70.00	When diverting a small flow through the dirty water line to introduce biocide, there was a seawater spill from dirty water line due to corrosion. The point of the leak was from a location that had already been clamped/patched for repair.	Vacuumed seawater and put into sump.	Into sump which discharges to dirty water tank.	This spill was unable to be reported right away because the operators needed to address the cleanup immediately so the material would not flow out of the module.
6/11/02	2002-IR-242890	Flow Station 2, Drill Site 9 Manifold building	Hydraulic Fluid	70.00	A swagelok fitting, which had been installed for many years, parted, allowing hydraulic fluid to pump out on the floor of the manifold building. The spill was discovered by the drill site operator and spill clean up activities commenced.	Material was vacumed and mopped up with absorbants inside module. Material that had impacted melt water under module with recovered using absorbants. Water was then removed with a vac-truck. A small amount of gravel was also picked up.	Absorbants taken to oily waste disposal. Recoverd fluids and water taken to pad 3 for disposal.	Initially report on 6/12/02.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/5/06	2006-IR-1790355	GC-2 Pad, Outside between Skid 42 and and Skid 16, GC2/SAT	Produced Water	70.00	While making routine rounds the Oil & Gas Operator discovered a quantity of ice outside Skid 42. Upon investigation, he found that the ice had come from the line that was reported frozen a couple of days earlier, the V-220A water outlet line. This line runs between Skid 42 and Skid 16 via an outside pipe rack. The leak appears to be in a vertical section of pipe after it leaves Skid 42. The ice is on piping, pipe support, and the pad. The line was not leaking at the time he discovered the ice. The operator subsequently isolated the line and informed the Lead Tech of his discovery. The lead called in the spill immediately.	The ice on the building, pipe work and ground was removed with handtools. It was then shoveled into a dumptruck for disposal transportation.	Contaminated snow and ice has been taken to the Grind & Inject Facility at DS-4.	
10/5/01	2001-IR-123182	Well Pad M, Doyon Rig 16 Pump Room / Pad M well 13	Seawater	70.00	While using the mud pump to wash and clean out the BOP stack 70 gallons of seawater was discharged into the pump room through a bleed off line that was not properly closed off. The bleed off valve was left open while maintenance had been performed on the pump earlier in the day. Of the 70 gallons of seawater discharge, 50 gallons was caught in containment, 20 gallons was spilled onto the pad when the seawater leaked through a seam in the pump room floor.	Water in containment sump on rig was sucked out and reused in system. The contaminated gravel on the pad was cleaned up using a loader, dump truck and hand tools.	Contaminated material has been taken to Grind and Inject Facility for disposal.	
5/4/06	2006-IR-1823170	Well Pad X, X-pad lateral valve, GC3	Methanol/ Water	70.00	At 10:00 hrs on 5/4/2006 a Veco Instrument Tech found a 60/40 methonal leak on a lateral Valve while working on the chemical injection lines walking speed survey. After further review, it was confirmed by operator that a grease zert was leaking on a lateral valve. Environmental was immediately contacted and reported that 70 gallons of 60/40 methanol had leaked from grease zert into pit area. Tundra was not affected. Spill cleanup commenced shortly after leak was identified. Grease crew installed new piggy back grease zert and greased valve confirming leak was repaired.	The contaminated snow and gravel has been removed from the reserve pit using heavy equipment and hand tools.	Material was taken to Drill Site 4 Grind and Inject Facility.	
10/5/07	2007-IR-2437446	West Dock Road, Kenai Camp, West Dock Staging Area, Non Process Area	Sewage	70.00	Pump at lift station failed resulting in Kenai Camp sewage tank over flowing onto Pt Mac Staging Area Pad. Alarm was on same circuit as lift pump, so alarm also failed to sound as fluid levels rose to over flow.	Fluides cleaned up and taken to Pad 3.		
5/20/97	1997-IR-89119	GC-1 Oil Section	Crude Oil	69.99	Sk 14 Shipping Pump, spill in module. Exact souce of spill not determined, most probable cause is the Outboard Seals on P-101D leaking or Sample Tap left open. Drain lines to sump were plugged casing overflow of process fluids. Skid isolated to personnel access due to Benzene risks until cleanup could be completed.		The crude oil and water has been pumped into the dirty water tank at GC-1 for recycle.	Crude oil was released to the module floor from a sampling pod located next to a shipping pump. Exact cause is under investigation.
9/13/00	2000-IR-95428	Flow Station 1	Diesel	69.99	Slop oil tank was overfilled then moved. Product that remained in the tanks secondary containment splashed out onto pad.	Contaminated gravel removed with heavy equipment	Pad 3	NOTE: Spill location listed as FS 1, however the spill actually occured on NGI. NGI is not currently an option for spill location
9/24/89	1989-IR-96771	Flow Station 2, Not specified	Diesel	69.99	Fuel line ruptured.	Not specified	Not specified	Not specified
8/3/88	1988-IR-96403	Drill Site 12, Not specified	Diesel	69.99	Valve not closed	Not specified	Not specified	Not specified
10/26/88	1988-IR-100730	Not specified	Diesel	69.99	Overfilled tank	Not specified	Not specified	Not specified
6/5/89	1989-IR-96666	COTU Facility, Not specified	Diesel	67.99	Overfilled tanker	Not specified	Not specified	Not specified
12/18/95	1995-IR-91247	Well Pad M	Crude Oil	67.99	M-pad was shut down on 12/15/95 to repair header 44 and this spill probably occurred at 2200 hours on the 12/17/95 during restart but not discovered until 1600 hours on 12/20/95 during pad rounds under blizzard conditions. This spill was in skid M-52 snow shelter on flow line M-6 at an isolation flange. These flanges have leaked in the past and spill liners have been installed under them. Environmental has estimated this spill between 60 and 70 gallons all of which was contained in the spill liner.		The oily sorbents were bagged and placed into the NSB oily waste dumpster.	
8/29/06	2006-IR-1958409	Well Pad S, S-40 wellhouse cellar, GC2/SAT	Produced Water	66.00	After putting S-40 on production the pad operator was making a routine check of the wellhouse when he discovered fluids seeping from the conductor pipe into the catch pan in the well cellar. The pad operator notified the Down Hole Diagnostic (DHD) group of the problem.	The free standing liquid inside of the containment tub was removed using a vac truck.	Material was taken to Pad-3.	
12/7/04	2004-IR-1159061	Drill Site 15, Drill Site 15 well 14, FS3	Seawater	65.00	A hammer union was separated from the connection point at the return tank while a pumping job was in process. Most of the returned fluid went into the liner under the tank, with a small volume misting the surface of the pad. This was quickly observed and the pumping process was shut down immediately. At this time personnel were unsure why the hammer union separated (no damage or excessive thread wear was observed). All line walk-downs and checks had been completed prior to the start of the job.	Fluids in containment were recoverd with a vac truck and material that misted out of containment was recoverd with a loader and dump box.	Contaminated fluids were disposed at the Pad-3 waste injection facility and contaminated snow / gravel was taken to G&I.	Initial reporting of the incident occurred within 30 minutes of the first BPXA employee being notified that the volume in containment exceeded 55 gal, triggering the immediate release reporting requirement.
10/9/06	2006-IR-2012814	GC-2, GC 2 Skid 408 , GC2/SAT	MEG	65.00	Opened fill valve to fill the seal oil tank, operator did not receive notification of a high level alarm and the tank over filled.	A barrel vac was used to recover standing liquids and sorbent material was used to wipe down edges.	The liquids were put into the sump of skid 408.	Verbal notification was made on 10/10/06 at approximately 1420 hours.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/20/04	2004-IR-911160	Seawater Treatment Plant, SEAWATER TREATMENT PLANT MODULE 4911 LOWER FUEL GAS ROOM, FS1/SIP/STP	MEG	65.00	FUEL GAS TO FIRED HEATERS ESD VALUE CLOSED FOR REASONS UNKNOWN CAUSING THE GLYCOL HEAT EXCHANGER TO COOL DOWN AND PLATES STARTED LEAKING GLYCOL / BLOCKED THE HEAT EXCHANGER IN CALLED 5700 AND CLEANED UP THE MESS	SUCKED UP GLYCOL WITH PUMP INTO CHEMICAL CART AND USED ABSORBENT PADS FOR REST OF CLEAN UP.	GLYCOL SUCKED UP PUTTING BACK INTO GLYCOL SYSTEM THRU GLYCOL SUMP TANK / ABSORBENT PADS PUT INTO OILY WASTE BAGS FOR DISPOSAL.	
10/3/01	2001-IR-122425	Well Pad L, L-100	Fresh Water	65.00	A 150 bbls of water was mixed with base gel in a mixing tank. Once mixed, the gel was directed back to the storage tank and the recirculation valve was opened to allow the gel to be recirculated through the C-pump back into the tank for a good gel hydration. After 15 min of hydration, a gel sample was to be taken. As the engineer got near the PCM to get the sample, she noticed that some gel was overflowing from the top of the mixing tank. The PCM operator was notified immediately and shut down all pumps and valves. It was later found out that the recirculation valve had never opened and the gel was directed from the storage tank to the mixing tank, which it eventually filled up and overflowed. The valve indicator showed that the valve was in the recirculating position. The system was stripped down and it was discovered that the valve solenoid had failed. There was no harm to people. All the spilled fluid was contained to the pad and did not contact the Tundra.	All of the contaminated gravel has been excavated from the pad using a loader, dumptruck and hand tools.	Material has been taken to Pad-3 disposal facility.	
1/23/92	1992-IR-87241	GC-2 Pad	MEG	64.99	Loose connection in glycol heat trace line.		Comtaminated snow taken to T-Pad disposal pit.	Loose connection in glycol heat trace line.
12/7/04	2004-IR-1159061	Drill Site 15, Drill Site 15 well 14, FS3	Crude Oil	64.00	A hammer union was separated from the connection point at the return tank while a pumping job was in process. Most of the returned fluid went into the liner under the tank, with a small volume misting the surface of the pad. This was quickly observed and the pumping process was shut down immediately. At this time personnel were unsure why the hammer union separated (no damage or excessive thread wear was observed). All line walk-downs and checks had been completed prior to the start of the job.	Fluids in containment were recoverd with a vac truck and material that misted out of containment was recoverd with a loader and dump box.	Contaminated fluids were disposed at the Pad-3 waste injection facility and contaminated snow / gravel was taken to G&I.	Initial reporting of the incident occurred within 30 minutes of the first BPXA employee being notified that the volume in containment exceeded 55 gal, triggering the immediate release reporting requirement.
3/29/92	1992-IR-97880	Drill Site 13	Produced Water	63.99	Material leaked from tiger tank during pigging operation.	YES -		Material leaked from tiger tank during pigging operation.
4/17/02	2002-IR-204720	Well Pad H, H-21	Produced Water	63.00	Subsequent to a GC-2 shut down from a loss of power, the SDV valve on H-Pad also closed as designed. As a result of this valve closing, the individual wells continue to build until they reach their maximum shut-in tubing pressure. Well H-21's flowline ruptured at the 6" elbow located just downstream of the tree's wing valve after being shut in for approximately 20 minutes. According to the pressure data logging in SCADA, the flowline reached a pressure of near 2500 psi before failing.	The contaminated snow was removed using heavy equipment and hand shovel crews with snowmachines. The well house was dismantled and taken to a wash bay for decon then it will be sent out for metal recyle. Affected pipelines and well houses were hand wiped with rags and absorbent.	All of the contaminated snow was hauled to T-Pad storage pit where it is being melted down. Once it is melted it will be taken to Pad-3 for disposal. All of the rags and absorbents were placed in an approved oily waste dumpster.	Written permission from ADEC has been given to leave lightly misted area in reserve pits for the spring dewatering season.
10/7/02	2002-IR-332795	Drill Site 16, DS 16 # 13	Natural Gas Liquid (NGL)	63.00	A VECO Vac truck driver was dispatched to drill site 16 to off load 100 barrels of 40-degree fresh water into a VE (tiger tank) containing diesel and NGL’s. The driver had off loaded all the fresh water, and when the line was empty some air was introduced into the VE tank. At that point the contents of the tank boiled over rapidly releasing a large volume of fluid to the containment dike and surrounding gravel pad. The incident was reported immediately and a full investigation is ongoing. There were no injuries associated with this event.	60 Degree water was used to melt contaminated snow and slush that was caught in the containment so it could be pumped to another tank (tank no. 2). The content of tank no. 2 was then pumped into common line 16-29 for hydrocarbon recycling at Flow Station 2. Approximately 400 barrels of fluids were pumped from tank no. 2 into common line 16-29. After the tank and containment were moved loader, trimmer and hand tools were used to remove contaminated material.	Fluids put back into process for benificial reuse, 158 cubic yards of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 10/7/02.
2/25/98	1998-IR-90619	NW Eileen	Drilling Mud	62.99	High pressure union connecting segments of mud line between rig modules, developed a spraying leak. Wind carried some mud spray outside containment area. (5 gal) Leak is belived to have resulted from a incorrect alignment of union and pinching of gasket causing a washout of the gasket. Lesson Learned: Insure all gaskets are checked and replaced as needed.		Material was removed from cuttings tank and disposed at CC2A.	A high pressure union connecting segments of mud line between rig modules developed a spraying leak due to incorrect alignment of union and pinching gasket causing gasket washout
7/12/90	1990-IR-97040	Seawater Injection Plant	Seawater	62.99	Material flowed out of a faulty check valve.	YES -		Material flowed out of a faulty check valve.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/9/91	1991-IR-97648	Drill Site 03	Seawater	62.99	"Wire broke, camlock vibrated loose."	YES -		"Wire broke, camlock vibrated loose."
2/10/93	1993-IR-98104	Drill Site 03	Crude Oil	62.99	T-connection failed due to stress.	Metis/Cleanup		T-connection failed due to stress.
7/2/89	1989-IR-96705	Drill Site 12, Not specified	Methanol	62.99	Hardline ruptured caused by an ice blockage.	Not specified	Not specified	Not specified
7/2/89	1989-IR-96706	C Pad, Not specified	Lube Oil	62.99	Leaked from loose clamp on a hose.	Not specified	Not specified	Not specified
12/23/89	1989-IR-96301	Drill Site 12, Not specified	Seawater	62.99	Needle valve vibrated open.	Not specified	Not specified	Not specified
12/1/88	1988-IR-96559	Flow Station 2, Not specified	Crude Oil	62.99	Overfilled tank	Not specified	Not specified	Not specified
10/6/00	2000-IR-95460	Drill Site 03	Seawater	62.99	A Peak vac truck driver overfilled a 400 barrel upright tank, at Drill Site #3, well #36, with 1% KCL solution. The tank had approximately 11 feet of void space prior to the filling operation and the Dowell coil unit was pumping out of the tank at 2.5 barrels per minute. The vac truck driver failed to follow procedures by using a spotter on top of the tank while topping off the tank and exceeded the 90% capacity rule. At the time of the incident, the vac truck driver was supplying his fifth load of KCL solution to the job site. All prior loads had been offloaded by placing 150 barrels of solution into one upright tank and the other 150 barrels into the second upright tank. However, due to the available space in the tank and the Dowell pump rate, the driver assumed he could fill the tank. The vac truck driver continued pumping the KCL solution into the tank until a Dowell coil employee informed him that he was overfilling the tank. This incident resulted in approximately 60 gallons of 1% KCL solution being spilled onto the snow covered pad. The tundra was in no was effected as a result of this incident. The employee was on the last day of a three week hitch when the spill occurred.	Complete	Pad 3	
6/2/01	2001-IR-101510	Well Pad Y	Seawater	62.00	In preparation to test BOPE, the stack and choke manifold were being liquid packed. While pumping, a leak occurred via the suction valve on the mud pump causing 1 bbl of slick water (2% KCL water with 5 gals/300 bbls friction reducer - J313) to leak into the secondary containment in the mud pump area and about 20 gals leaking onto the pad. The ACS spill technician was contacted and the spill was mopped/cleaned-up. The cause of the incident was a failure to verify the status of the valve before the BOP Testing operations commenced. The suction line cap was removed, the valve opened to drain the pumps, and the valve left that way during the move. The valve was overlooked during rig up, and no one was present when the system was fluid packed. A contributing factor was the lack of a handle on the valve, making it difficult to visually determine the position of the valve. Those present reported that the practice has been to close the valve and replace the cap after the job (i.e. draining pumps) was completed, however that is not specified in the pump draining procedure. No checklist exists for checking if valves are left open. Also while proper valve position was referenced in the procedures for rig up/setting pumps as well as the BOP Test procedure, the suction valve was not specifically addressed.	The rig personnel responded and clean up was done using vac. units.	The material was reused during rig operations.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
10/17/90	1990-IR-97141	Drill Site 15	Seawater	61.99	Hose ruptured on return line.	YES -		Hose ruptured on return line.
1/6/93	1993-IR-87197	Well Pad D	Methanol	61.99	Crewman left the bull plug off the discharge side of the pump after hard lines were vacuumed empty. When freeze protection with MEOH started, the fluid was pumped onto the ground through the discharge port of pump. Liner was used and retained approximately 20 gallons and approximately 42 gallons went onto the ground. Fluids were vacced from the liner and ground by vac truck on site. Contaminated snow was scraped up with the 966 loader. Fluids were reused by the PE department, contaminated snow was hauled to T pad.		Fluids were reused by the PE department, contaminated snow was hauled to T pad.	
8/18/01	2001-IR-109881	Drill Site 04, DS #4 - northwest end of west retaining wall used by G&I	Fresh Water	60.00	Approximately 60 gallons, of reserve pit water, leaked from Vac Truck # 40-103 while parked on Drill Site #4 just west of the north end of the cement retaining wall used by G&I. A problem with the pump, located in the dog house, caused the leak. The vac truck has a capacity of holding 300 barrels.	Bobcat and dumpbox were used to remove contaminated gravel from pad.	Contaminated gravel was brought to G&I for disposal	In the materials release section of this report you'll notice that both water, and waterbased mud were used. This was to try to match the product as close as we could. It was 99.9% water with a trace of drilling mud, and crude.Troppers were notified as soon as volume was estimated.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/5/07	2007-IR-2177323	Airport, Pipe Yard at Old ARCO Airport Runway in front of MCC/PBOC, Non Process Area	Hydraulic Fluid	60.00	HCC Equipment Number 183-001, a Grove RT860 (60 ton) crane was in the process of being warmed up. The Equipment Operator was slowly rotating the boom around when the main hydraulic hose from the hydraulic tank failed, causing a spill.	Containments put down to catch as much hydraulic fluid as possible. The oilers truck was used to recover the free standing oil in the containments. Absorbant pads were used to recover the oil on the snow pack surface and to clean areas on the crane. A bobcat and dump box were used to recover the contaminated snow on the pad.	Oil recovered from the containments will be reused. Absorbant pads were disposed as oily waste. Contaminated snow was taken to T-pad for storage and future class 1 disposal.	Immediate notifications were made on 3/5/07. The quantities have been adjusted. The crane is repaired and the hydraulic tank is re-filled. It took 60 gallons of hydraulic fluid to re-fill the tank.
10/14/02	2002-IR-338809	Flow Station 2, Flow Station 2 1934 Slop Oil tank glycol heat trace tubing	MEG	60.00	Corroded carbon steel glycol heat trace line on slop oil tank 1934 failed causing release to atmosphere	Recovered material outside of secondary containment with hand tools and loader. Recovered heavy concentrations inside secondary containment with pump. Trace amounts of material remaining inside secondary containment will be recovered in the spring when the containment is dewatered. Fluids from dewatering will be reused or disposed of at Pad 3	Recovered material taken to T-pad for disposal. Dewatering fluids will be reused or disposed of at Pad 3.	Initially reported on 10/14/02. Interim report subimtted with ADEC approval to postpone recovery of trace amounts of product remaining in secondary containment until spring.
11/3/07	2007-IR-2455625	Santa Fe Pad, South West side of Sante Fa Pad by Spine road, Non Process Area	Diesel	60.00	On the Saturday Morning November 3, 2007 at 3:00 am the NORCON Fuel truck and NORCON equipment service truck arrived at Santa Fe pad to fuel and service various pieces of equipment staged on location. The final piece of equipment for fueling and servicing was an Ingersoll-Ram generator # 32202 that had been stage at the electrician¿s materials trailer the previous day. They found the generator at approximately 3:25 am and prepared to fuel and service. As the fuel truck driver worked to extract his hose from the reel on the truck, the equipment service technician (oiler) went to the generator to start checking the fluid levels. As he walked to the generator he could see liquid in the spill containment unit positioned under the generator. He called to the fuel truck driver to come and investigate. They took a quick sample of the liquid by touching it with his glove and smelling. This confirmed that the liquid was diesel fuel. They also observed that diesel had flowed over the side of the containment and had contacted the ground; however it wasn¿t easily identified initially due to a cover of snow that came during the night. The fuel truck driver went back to his truck and retrieved a bundle of absorbent pads and they began placing them on the ground surface surrounding the generator and containment. They immediately contacted Non-emergency Spill Hot-line 5700 and NORCON Safety Manager. Upon arrival of the SRT team they began to pump out the containment and the remaining fuel in the twin tanks. This generator tank capacity is 120 gallons main tank and 80 in the reserve. The amount removed from the tanks was approximately 120 gallons from the main tank and 20 gallons from the reserve which is 60 gallon less of capacity. The amount of the spill was approximately 60 gallons. Once the cleanup was complete the generator was taken back to the VECO Equipment service mechanic to be examined. Upon examination it was determined that mechanical failure caused the diesel to leak from the reserve tank. ¿ Note: This Ingersoll ¿Ram Generator had been delivered the previous day of the spill and came from the VECO Equipment shop where it was being worked on for undisclosed repairs.	The fuel was transferred from the containment using a pump. The contaminated gravel was removed using a loader and hand tools.	The fluids will be recycled and the gravel was taken to Pad 3 disposal facility.	The initial notification was made 11-3-07 at approximately 0745 by the WOA Environmental advisor.
11/10/01	2001-IR-133091	Well Pad S	Seawater	60.00	While pumping a frac job on S-106 a Centrifugal pump developed a severe leak. A frac hand on the ground close to the Precision Continuous Mixer truck saw the gel starting to come out of the catch pan underneath the truck and alerted his supervisor. The C-pump was shut down immediately and the frac hands gathered around the PCM and contained the leak. A total of 60 gals of 30 lbs gelled water was spilled and Alaska Clean Seas was called out immediately. The PCM truck was brought to the Schlumberger shop in order to repair the pump and identify the cause of the leak. The pump was dismantled and completely rebuilt. A normal amount of corrosion was present on the volute walls but one of 3 cast iron plugs on the C-pump volute was corroded and washed out. All of the plugs were changed out for new steel plugs. The volute and wear plate were also changed out. This incident did not result in any harm to people or damage to the tundra.	A Bobcat and trimmer was used to clean up the affected snow covered pad.	The material was taken to T-pad pit and will be melted in a snow melter and taken to Pad 3 disposal facility.	
10/6/05	2005-IR-1571280	GC-3 PWX Section, BPXA/GPB/WOA /GC3/SKID 484 PIPE RACK, GC3	MEG	60.00	The meg heat trace supply line to the skid 484 blow case psv drain lines lost pipe integrity due to external corrosion. The line began to leak meg externally on to the facility gravel pad at the reducing tee off the supply header. The swedge lock fitting for the issolation valve on this line also failed durring the leak investigation when some insulation was disturbed increasing the external leakage. GPB spill reporting line (5700) was notified.	The free liquids were put into a drum. The contaminated gravel was removed using a loader and hand tools.	The liquids were taken to the GPB waste coordinator and the gravel was taken to Pad 3 disposal facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/7/07	2007-IR-2116027	GC-3 PWX Section, GC3 pipe rack #12-2 between skid 484 and 402., GC3	Produced Water	60.00	On or about 1630 hours, the area operator discovered what appeared to be produced water leaking from an overhead sump line in pipe rack # 12-2 between skids 484 & 402. He reported the incident to the lead that in turn made the appropriate notifications. SRT responded around 1730 hours. Their initial estimate was 60 gallons of produced water. This leak was contained to the GC3 pad. This sump line drains two sump systems, one in skid 515 and another in 484. Due to the extreme low temperatures and concurrent problems with the MEG heat trace system on this line, it appears this line froze on or around 12/30/06. We installed blankets on the entire section of this line and had two Tioga heaters blowing hot air an attempt to thaw the line. While we were attempting this thaw, we had been utilizing a rated 1¿ soft line to pump out the sumps as needed. Although we have not confirmed the cause of the leak, it appears the line split in one or more locations due to ice plugs somewhere in pipe rack #12-2 between skid 484 & 402. We will confirm this assumption once we begin demo work. This section of the sump line has been blinded from the system and a repair plan is being developed. No further leakage has been observed since the blinds were installed.	The contaminated gravel has been removed using a Bobcat Skid Steer Loader and hand tools.	Contaminated snow and gravel will be taken to Grind & Inject Facility.	
11/19/01	2001-IR-136505	Seawater Injection Plant, Loading dock at Seawater Injection Plant.	Seawater	60.00	A Veco Tanker Driver was dispatched to the Seawater Injection Plant (SIP) to load 290 barrels of hot water. Upon arrival, the employee discovered a release of seawater to the secondary containment and gravel pad as he was preparing to load the tanker. The employee immediately contacted the Veco Dispatcher and Supervisor as well as the Environmental Hotline (x5700). An investigation into the incident revealed that both of the loading valves in the skid had been tagged because they leaked. The last time hot water had been loaded at the skid was 48 hours earlier by a Veco Fluid Hauler. The bleed valve between the two load valves had been left in the open position (the bleed valve leaked, at slower rate, in the closed position). There is a 1 inch hose connected to the bleed valve that is open ended with no means to isolate it. The Environmental Technician and the Wells Group Safety advisor arrived on site to assess the spill and condition of the environment. The spill volume was estimated to be 60 gallons of seawater. There was 40 gallons of fluid in secondary containment and 20 gallons of fluid on the snow covered gravel pad. An investigation into the incident was conducted utilizing the techniques in the Root Cause Analysis manual.	Recovered liquids in secondary containment with Vac truck and material from frozen gravel pad with loader. Placed snow/gravel in dump box for disposal at Pad 3.	5 cu. yrds of lightly contaminated snow taken to Pad 3 for disposal.	
6/29/03	2003-IR-552231	CPS, CPS Phase 2 Turbine GT-3	Lube Oil	60.00	At appoximately 0825, an employee reported seeing a leak on GT-3 turbine, operators upon investigation confirmed lube oil leak on GT-3 and Control Room Board operator gave GT-3 an Emergency Shut down. Spill was from 3/8 inch lube oil hardline. Notified Security (Spill Response) and began clean up. GT-3 deadlined until hardline can be repaired	Recovered material with absorbents and disposed of as oily waste.	100% disposed of as oily waste	
2/6/00	2000-IR-95979	Drill Site 11	Crude Oil	59.99	"Casing Flange at 13 3/8"" casing hanger started leaking after OA pressure rose from 0 to 440 PSI during normal operations (1000 PSI normal safe working pressure). Investigation revealed that the flange had been repaired after a similar leak 6 years ago	The spill response team was called out to the spill. Recovered snow and ice with loader. Transported to Pad 3 for disposal. Recovered contaminated gravel with supersucker and transported to G&I for disposal.		"Casing Flange at 13 3/8"" casing hanger started leaking after OA pressure rose from 0 to 440 PSI during normal operations (1000 PSI normal safe working pressure). Investigation revealed that the flange had been repaired after a similar leak 6 years ago

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/2/98	1998-IR-89999	Well Pad R	Diesel	59.99	Approximately 60 gallons of diesel fuel spilled from a coiled tubing unit performing a diesel wash on well R-22i. The spill occurred when the tubing kinked and parted at surface during pumping and washing operations. The initial stress on the tubing occurred when the end of the tubing struck the bottom of the well bore. The job was to have started early on the day shift of August 2. Startup was delayed while an ice plug and an injection safety valve were removed from the wellbore. After this initial prepartion was complete, the coil unit rigged up and ran into the hole to TD. The measured depth was verified and washing operations began. Because there was more fill in the bottom of the hole than was expected (about 14 feet of additional material), the bottom of the perforations were very near the top of the fill. The pump rate was increased and washing started at the bottom of the perforation zone. When the top of the perforation zone was reached, the coil was to have been lowered back down to make another wash run. During the lowering of the tubing, it struck the bottom of the hole (top of the fill layer) and stressed the tubing string (the tubing stacked out). This stress resulted in the tubing becoming kinked at the surface where the tubing makes a bend at the injector head. The kink was severe enough that the tubing broke, causing the diesel spill. Quickly after discovering the that the tubing had broken, the operator took appropriate and effective action to control the well and reduce the spill volume. The tubing remaining in the hole was secured, all potential ignition sources were shut down, and notifications made. There was no loss of well control and there were no injuries as a result of this incident.		Approx. 20 gal. was captured in secondary containment of the back deck of the unit. The sorbent pads used were bagged and put into an oily waste dumpster. The class II material on gravel was taken to pad 3.	Approximately 60 gal. of used diesel fuel (from downhole) spilled from a coiled tubing unit working on well R-22. 20 gal was captured in containment. The spill occurred when the tubing kinked and parted at surface during pumping operations.
5/3/96	1996-IR-90945	Niakuk Pad	Drilling Mud	59.99	While pumping mud from down hole the #3 pump over pressured and blew the pop off. The pop off line was frozen and the line blew apart at the treaded connection. Approximately 60 gallons of drilling mud was sprayed onto the Pad.	Hand tools and a Guzzler were used to pick up the contaminated snow.	The exempt clean up material was taken to CC-2A Ball Mill for disposal.	While pumping mud from down hole the #3 pump over pressured and blew the pop off. The pop off line was frozen and the line blew apart at the treaded connection. Approximately 60 gallons of drilling mud was sprayed onto the Pad.
3/7/94	1994-IR-88602	Drill Site 04	Drilling Mud	59.99	After function testing the diverter system, knife valve was observed to be closed and well was spudded. Drilling mud seeped by the knife valve and flowed out the end of diverter line, spilling an estimated 60 gallons of drilling mud onto drill pad. The knife valve had debris under the knife preventing it from properly seating.		Contaminates taken to CC-2 Ball Mill / Injection Facility	Before spuding well, knife valve for diverter was checked and function tested, it appeared to be closed. Began spuding well, drilling mud (H20) seaped from the knife valve due to debris under valve in the bevel slot.
9/26/94	1994-IR-86363	Well Pad F	Seawater	59.99	The packoff failed while pulling coil tubing out of well F-47. This resulted in a release and reportable spill of 60 gallons of seawater. The BOP pipe rams were closed, and the well was rekilled. The first 500 feet of coil is "ballooned," causing excessive wear on guide blocks. This also wore out the packoffs. This coil had 1000 feet added to it several days prior to the incident. This coil was added to allow a deep workover on well Z-30. The pipe apparently was not checked for roundness or diameter. It came from the last wrap of another coil reel. The last wrap is generally known as out of round or ballooned.		The contaminated gravel and snow was taken to T pad pit for disposal.	During a coil tubing operation, the packoff failed causing approx 60 gallons of sea water to spray on the pad. An inspection revealed he first 500 feet of the tubing is 'ballooned', which caused the packoff failure.
2/3/99	1999-IR-93431	Well Pad S	Produced Water	59.99	The pigging crew had just completed pigging the LBRB-S-7502 14" Produced Water line at S-Pad. The crew isolated the inlet valve and return valve of the pigging receiver after the pig was trapped. While standing on the outside landing, the Pigging Operator, heard a loud noise and observed steaming hot water being released from a vent line at the upper portion of the skid. The pigging technicians, working in the skid, were in the process of rigging up the bleed hose, at the bottom of the receiver, to the drain sump. The crew shutdown all activities and began to look the situation over to determine the cause of the spill. At this time, one of the pigging crew heard flow through a 2" vent valve, on top of the receiver, that was in the closed position. The crew then drained the residual water to the drain sump and the leak stopped. It should be noted that the vent valves on pigging receivers are never manipulated during pigging operations. It is believed that the 2" vent valve has malfunctioned. The incident was immediately reported to all respective departments and clean-up activities begun.	Material was removed from the lines using a man lift and hand tools.	The exempt clean up material was disposed of at Pad-3.	A pigging line vent failed causing approximately 60 gallons of produced water to spill outside of the module.
4/30/00	2000-IR-100607	Drill Site L3	Fresh Water	59.99	The end cap flange on the crude heater started leaking. It appears the gasket failed.	The SRT was called out to clean up the spill. The product was cleaned up by using shovels and vac trucks and placed into a container for transportation.	The material was taken to pad 3 for disposal.	The end cap flange on the crude heater started leaking. It appears the gasket failed.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/30/00	2000-IR-100607	Drill Site L3	MEG	59.99	The end cap flange on the crude heater started leaking. It appears the gasket failed.	The SRT was called out to clean up the spill. The product was cleaned up by using shovels and vac trucks and placed into a container for transportation.	The material was taken to pad 3 for disposal.	The end cap flange on the crude heater started leaking. It appears the gasket failed.
9/9/00	2000-IR-95359	GC-3 Gas Section	MEG	59.99	GC-3 was depressuring the gas plant in preparation for a planned shutdown. The TEG level valves were closed on both reboilers but, apparently, the valve on the Odd reboiler leaked through. The surge drum overflowed through the 'B' PSV and vented onto the containment dike outside the skid.	Gravel was cleaned up with a bobcat , hand tools and dumptruck.	Contaminated gravel was disposed of at DS-4 Grind & Inject facility.	Bleed tank that overflowed will be sucked out with vac truck.
5/1/81	1981-IR-96040	Central Compressor Plant, Not specified	Diesel	59.99	Tank expanded	Not specified	Not specified	Not specified
8/7/99	1999-IR-98819	Drill Site 03	Produced Water	58.99	Leaking internal valve caused sump to fill and vent to pad.	A Drillsite Maintenance Vac truck was used to pick up free standing fluids. A Peak supersucker was used to pick up contaminated gravel. Shovels were used to pick up what the other equipment could not reach.	The fluids were taken to pad 3 for disposal. The contaminated gravel was taken to the Grind & Inject facility for disposal.	Leaking internal valve caused sump to fill and vent to pad.
2/29/96	1996-IR-98320	Drill Site 04	Crude Oil	57.99	"When bringing a well back up, the well was routed into a test separator. A gas slug caused the well to """""burp""""" into the relief pit. 56 gallons of the crude misted onto the snow in the relief pit. The wind carried approximately 2 gallons of the	Used shovels and brooms to pick up contaminated snow and gravel. - Contaminated snow and gravel was taken to Pad 3 East Pit on 3/5/96 to be held for future melting and disposal.		"When bringing a well back up, the well was routed into a test separator. A gas slug caused the well to """""burp""""" into the relief pit. 56 gallons of the crude misted onto the snow in the relief pit. The wind carried approximately 2 gallons of the
12/5/94	1994-IR-98425	Drill Site 06	Crude Oil	55.99	"A vent on the test separator was opened during testing of a K-valve, allowing a mist of crude oil to be released to the atmosphere. -"	"SRT and ACS are working with a vac truck, a super sucker, water trucks, loaders, and dump trucks to remove oil and scrape up contaminated snow and ice from the reserve pit and affected frozen tundra. - Cleanup resulted in 99% contaminated snow and 1% c		"A vent on the test separator was opened during testing of a K-valve, allowing a mist of crude oil to be released to the atmosphere. -"
2/1/07	2007-IR-2140931	Flow Station 3, 4910 and 4935, FS3	Crude Oil	55.00	The operators were working on thawing a frozen section of sump drain piping by circulating hot produced water from 4935 to 4910 then pumping it to the CHD using a sandpiper pump. The sump drain piping downstream of 4910 between 4911 is suspect of having an ice plug. It was thought the heat from the water would thaw the ice plugThe 4935 module had crude across a 30¿ x 80¿ area of the module. The 4910 module was 99% produced water with 1% crude covering an area roughly the same size. The oil operator isolated the source water stopping the flow out of the sumps. The 4935 area was checked for benzene and PPE was distributed for clean up. A majority of the crude in 4935 was cleaned up by the operators and maintenance folks leaving small pockets in the corners and tight areas.	Hand tools and wet vacs were used to recover the fluids and put back in the facility sumps to be recycled. Absorband pads and mops were used to clean up the residue on the module floor.	Recovered fluids were put back into the facility sump to be recycled. Absorbant pads were disposed as oily waste.	Initial notification made on 08:05 2/2/07.
9/14/02	2002-IR-314507	Flow Station 1, Flow station 1 pad/module 4932.	Lube Oil	55.00	During the recent FS1 shut down we installed phase 1 of the mist eliminator on the main vent line for the lube oil reservoir. The installation consisted of installing a block valve on the main line and adding a tee and block valve with blinds on both sides of the main block valve. After completion of the job the operator started the turbine after completing his normal checks. The operator indicated the contractor that installed the valve was questioned about the position of the newly installed main vent block valve and was told it was in the open position. After the turbine was online for about 12 hours the maintenance lead was driving to the area and noticed the oil coming out of a couple vent pipes leaking to the ground. We requested the turbine to be shut down. After investigating further, we realized that the main lube oil line was in the closed position causing the reservoir to pressure up and carry the oil out of the #2 turbine bearing vent and the gas compressor bearing vent pipe.	Recovered material with Vac truck and loader.	15 cubic yards of material taken to T-pad for disposal.	Initally report on 9/16/02
4/9/05	2005-IR-1316818	BOC, boc, Non Process Area	Sewage	55.00	A crack in the p-trap under the pot washer appeared and caused water to drip into the crawl space and onto the ground.			
6/18/90	1990-IR-96314	Drill Site Maintenance	Diesel	54.99	Driver pulling triplex pump drove too close to road shoulder and tipped	YES -		Driver pulling triplex pump drove too close to road shoulder and tipped

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/30/90	1990-IR-97029	Flow Station 2	Produced Water	54.99	Seal failed on produced water pump. Water went out door onto pad.	YES -		Seal failed on produced water pump. Water went out door onto pad.
1/28/92	1992-IR-87921	GC-2 Pad	Crude Oil	54.99	Oil observed to be leaking through seams in insulation covering.		Contaminated snow taken to T-pad disposal pit.	Oil observed to be leaking through seams in insulation covering.
7/9/90	1990-IR-97036	Flow Station 2	Diesel	54.99	Overfilled pump tank.	YES -		Overfilled pump tank.
3/2/00	2000-IR-94693	MOWF Storage Yard	MEG	53.99	When employee went to run the unit, he discovered glycol on the ground. Upon further investigation, he found that one of two tank heaters on the engine had a hole in it and that the engine coolant was leaking through the hole and running out the back door onto the ground.	Affected snow and gravel was scraped up with a loader and hand tools.	50 gallons were taken with the affected snow and gravel to Pad 3. Four gallons were recovered and recycled.	All similar units will be inspected.
3/31/01	2001-IR-101134	Central Compressor Plant, CCP under turbine 1810	Lube Oil	52.00	At 8:33 A.M. on 3/31/2001, three ADEC inspectors arrived at CCP to conduct a "spot" inspection for oil drips beneath the turbine modules. The CCP Lead Operator escorted the three inspectors to view the underside of the turbine modules, starting on the south turbine wing. Once the group reached Module 4910 (T/C 1810)on the north turbine wing, the lead inspector and CCP Lead Operator walked into the secondary liner under the turbine skid (both entered the liner at the southwest corner). They found what appeared to be a mixture of lube oil, fire-fighting foam, and snow contained within the boundary of the liner (approximately 1-2 inches deep). The CCP Lead Operator then informed the inspector of the lube oil fire that occurred on this unit a couple of months earlier (1/10/2001). Both individuals then walked to the northwest corner of the liner and noticed a spill on the gravel pad adjacent to the liner area--the spill area appeared to be approximately 10x15 feet. The center of the spill appeared to be a frozen combination of water, lube oil residue, and fire-fighting foam while the perimeter appeared to be oil-stained gravel. The inspector commented that it was a reportable spill and inquired if it had been reported--the CCP Lead Operator was not sure if it had been reported during the 1/10/2001 failure of T/C 1810, or if it was a 'new' unreported spill. The three inspectors then finished their inspection and left the facility at 9:00 A.M. The Lead Operator then contacted FEC at 10:00 A.M. to determine if the spill had been previously reported--FEC verbally notified varous agencies regarding the failure of 1810, however, a specific spill report had not been filed. The Lead Operator then immediately contacted x5700 and reported the spill.	Used a loader with a scratcher and bucket to cleanup area outside of containment. Shoveled heavily contaminated snow out of containment into dump box for disposal. Containment flushed with hot water to remove remainder of product.	4 cu. yds. of contaminated gravel to Pad 3 West Pit. 21 cu. yds. of snow to Pad 3 East pit. Pad 3 injection for product flushed from containment.	This information is being provided to ADEC per 18 AAC 75.300. AK Trooper spill hotline notified by M. McAdams at 16:00 on 3/31/01
11/5/02	2002-IR-358375	Well Pad Y, Y-pad Skid 56	Corrosion Inhibitor	52.00	The Pump truck operator inadvertently left the Roper pump in the "Vac" position upon the completion of the previous job, after hooking up the Tanker at the next location, the operator went into the skid to line up the valves, during the few minutes the operator was in the skid the #1 Tank on the Pump truck overfilled spilling approximately 104 gallons.	The two trucks that were contaminated had to be wiped down on sight by hand then sent to wash bay for further cleaning. All of the contaminated snow was removed with heavy equipment, hand tools and snowmobiles. All of the contaminated gravel was removed with a bobcat trimmer and loader.	All of the contaminated rags and absorbent were taken to an approved NSB oily waste dumpster. The water from the truck wash has been taken to Pad-3 for disposal. The contaminated snow will be melted down and reused on an approved freeze protection job. The contaminated gravel will be taken to T-Pad storage pit pending approval.	Sample results have been sent to ADEC and were approved by John Dixon on 12/9/02. No further clean up was needed.
11/5/02	2002-IR-358375	Well Pad Y, Y-pad Skid 56	Diesel	52.00	The Pump truck operator inadvertently left the Roper pump in the "Vac" position upon the completion of the previous job, after hooking up the Tanker at the next location, the operator went into the skid to line up the valves, during the few minutes the operator was in the skid the #1 Tank on the Pump truck overfilled spilling approximately 104 gallons.	The two trucks that were contaminated had to be wiped down on sight by hand then sent to wash bay for further cleaning. All of the contaminated snow was removed with heavy equipment, hand tools and snowmobiles. All of the contaminated gravel was removed with a bobcat trimmer and loader.	All of the contaminated rags and absorbent were taken to an approved NSB oily waste dumpster. The water from the truck wash has been taken to Pad-3 for disposal. The contaminated snow will be melted down and reused on an approved freeze protection job. The contaminated gravel will be taken to T-Pad storage pit pending approval.	Sample results have been sent to ADEC and were approved by John Dixon on 12/9/02. No further clean up was needed.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/20/04	2004-IR-1136771	Well Pad S, S-33, GC2/SAT	Diesel	50.00	The S-pad operator noticed a small amount of Diesel around the casing in the cellar of Well house S-33. While investigating the diesel spot, it was found that the gravel below surface had more saturation. Response notifications were made to SRT, who came to location for inspection.	The liquids were removed using a hand pump. The contaminated gravel was removed by the subsidence crew using a Super Sucker on 11/28/04.	The fluids were put into a bleed trailer, the gravel has been taken to DS-4 grind and inject facility.	The Wells integrity group has bleed down both the inner and outer annulus and are conducting additional tests. 15 gallons of additional diesel was recovered on 11-22-04 most from leaching through gravel for a total volume of 50-gallons. Initial report sent 11-21-04 01/24/05 Recovered 40 gallons using vac truck and taken to Pad 3
8/22/05	2005-IR-1510981	Main Construction Camp (MCC), MCC MEDICAL FACILITY, Non Process Area	MEG	50.00	TECHNICIAN NOTICED LOSS OF BOILER PRESSURE AND STARTED TO SEARCH THE MCC CAMP FOR LEAKS. FOUR LEAKS UNDER THE CAMP IN THE AREA OF THE MEDICAL FACILITY AND ADJACENT TO IT FROM THE UTILIDOR. HE REPORTED THE SPILL TO THE 5700 SPILL LINE AT 9:40 AM.THE FLOOR OF THE MEDICAL FACILITY HAD TO BE CUT OUT TO ACCESS THE AREA OF THE LEAK SOURCE. REPAIRS WERE STARTED AT 10:00 AM AND WERE COMPLETED AT 2:30PM. ALL OF THE LEAKS WERE CAUSED BY VICTAULIC GASKET FAILURE AT PIPE COUPLINGS	Areas in the utilidoor and crawl space were wiped up with absorbents. A super sucker was used to recover the contaminated gravel where the glycol leaked from the building.	The sorbents were disposed as oily waste and the contaminated gravel was taken to Pad 3.	Approximately 40 of the 50 gallons released has been cleaned up at this time. The remaining 10 gallons of the release to the gravel pad will be cleaned up and disposed pending receipt of analytical data. The data came back non-detect for TCLP metals.
4/14/05	2005-IR-1324666	Drill Site 17, DS17 reserve pit close to pipe alley., FS2/COTU	Corrosion Inhibitor	50.00	At approximately 4:45 this morning a corrosion inhibitor spill was discovered by the reserve pit snow removal crews working at DS17. Upon further investigation it appears that the chemical was leaking from the 3/4 inch stainless tubing that feeds chemical to the producing well lines. The Drillsite operator notified SRT and clean-up operations are beginning. Preliminary indications indicate that the leak was caused by snow loading on the lines.	Contaminated snow was removed with a loader and hand tools and put into a dumpbox for disposal. The contaminated ice will be flushed with water and recovered with a vac truck.	The contaminated snow will be disposed at T-pad and the recovered fluids from the flush will be disposed at Pad-3.	NOTE: This is a final report. 600 BBl's of fluids were taken out of spill location. Toivo Luick Spoke with Koreen Burrow in regards to closing out this spill at this time.
10/13/06	2006-IR-2015863	Well Pad X, Skid 54 process area on X-pad, GC3	Crude Oil	50.00	At 1130am received a call from the PCC that we had a low gas alarm in Skid 54 at X-pad. Operations personnel evacuated incident location and made appropiate notification to Doyon Rig 14 personnel and BP Supervisor. Low level gas alarm was in with an LEL reading of 15%. Notified ERT to respond to incident at X-pad. Operations personnel were staged out side of skid 54 until ERT arrived. X-pad had been shut-in for several weeks, and all wells were shut-in and isolated prior to the incident. HVAC systems were in operation in skid 54 and PCC depressured skid 54 process piping back to the X-pad LDF. Once process was depressured and LEL levels down to 2% the ERT members responded inside of the skid with SCBA's to determine source of the leak. Once inside the skid ERT members confirmed produced water and crude on the floor of the skid, and identified source of leak on the X-1 pressure transmitter 7503 located on the well flow-line on third level of skid. Once area was safe to enter, operations personnel isolated the Rosemont Presurre Transmitter valves and elilminated any further leaking. Safety and Environmental personnel were immediately notified and responded to the scene. Safety completed a site safety assessment, and confirmed that LEL, Benzene, and VOC's were at safe levels. The ERT personnel, MCC, and On Scene command were set up on entrance of X-pad. Once Safety confirmed LEL, Benzene, and VOC were at safe levels, and source of release was isolated the MCC and ERT were released.	A vac truck was used to remove standing liquids in the skid. Sorbents and rags with chemical degreaser were used to clean affected walls and other affected areas of the skid. The small amount of material that went outside the skid one the gravel was cleaned up with shovels.	The liquids were taken to Pad 3 because GC-2 was shut down and not able to receive hydrocarbon recycle materials.	The verbal notification was made by the GPB West Environmental advisor on 10/13/06 at approximately 1:45 PM after the skid was safe to enter for an assestment.
4/17/03	2003-IR-490491	Drill Site 17, The reserve pid behind Well 17-11	Corrosion Inhibitor	50.00	Snow load upon the CI injection line to well 17-11 pulled the tubing out of a ferrel. This resulted in chemical pumping into the snow in the pit until the pump shut down on high flow rate. The pump alarms had been reduced in priority such that they did not notify the board operator of the problem. The night DSO discovered the pump down and locate the parted tubing.	Fluids were recoverd using a vac truck. Contaminated snow was removed with hand tools and heavy equipment and placed int a dump box for disposal.	Contaminated snow was taken to T-pad for disposal.	Immediate notifications were mad to the propper agencies. NOTE: After confermation samples were reveiwed spill was deemed clean. This is a Final report.
10/24/06	2006-IR-2025168	GC-2, GC2 pad. 24" portable pig launcher installed on the GHX (bypass GC2 oil transit line) pipeline., GC2/SAT	Crude Oil	50.00	The 24" portable pig launcher currently inplace on the the GC2 GHX line (bypass oil transit line) began leaking after issolation valve servicing. This launcher was being prep'ed for removal and relocation. The operator and contract work crew had tried to issolate and drain the launcher earlier in the day. It was idendified that the launcher system issolation valve was not holding and needed to be serviced. The contract crew had disturbed a 3" blind on a unused connection on the launcher barrel with the intentions of using that location as a high point vent and stinger location for draining. The operations team lead identified that the removal of this flange was not appropriate at that time and had the contractor reinstall all fasteners. This flange began to leak when the launcher refilled post issolaton valve servicing. Crude oil and MEOH leaked onto the GC2 pad and began to run off the pad into the containment area between the GC2 pad and the H pad access road.	The freestanding liquids on the pad, tundra and under the ice on the tundra pond were recovered using a vac truck. The gravel was first washed with water and will be removed using heavy equipment and hand tools. The material on top of and under the ice will be removed with a warm water flush. The pig launcher was wiped down using absorbent pads.	Freestanding liquids and wash water were taken to Pad-3 for disposal. Contaminated gravel was taken to Grind & Inject facility.Absorbent material will be taken to an approved NSB oily waste dumpster.	The clean up has been complete for this spill and sample results have come back below clean up standards.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/17/01	2001-IR-101412	GC-3 Pad	MEG	50.00	At 0200 the GC-3 Rover noticed MEG spraying from heat trace on V-9557 HP gas scrubber drain line. The operators were unable to isolate the heat trace due to valves leaking through so the Gas Plant MEG heating system was shutdown and the pressure bled. The leak was at a high point in the pipe rack so it stopped leaking in short order. The Spill was reported and clean up began immediately.	Contaminated snow and gravel were cleaned up using a loader, dumptruck and hand tools.	The contaminated material was taken to pad-3 disposal facility.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300.
4/24/01	2001-IR-101284	GC-1 LPS Section	MEG	50.00	The potable water truck driver attempted to fill the 700 gallon plastic tank that feeds the LPS section enviro vac and break room. Water never exited from the overflow vent line as it was frozen due to a plugged small diameter glycol heat trace line (this has been a problem before in other areas). Standard procedure is to stop pumping when water shoots out of the vent line (onto the pad). The 4" plastic plug in the top of the tank was popped out when the tank pressured up. Water overflowed the tank and filled the module until it ran over the lip of the firewater deluge drain. The deluge drain has a P trap that is filled with 60/40 MEG/water (to preserve the module air balance integrity). A total of 50 gallons of fluid was spilled out the drain onto the pad underneath skid 472. It was not possible to determine the amount of MEG in the potable water that was spilled, but it was evident that at least some MEG was present due to a slight pink tint of the frozen ice. Given that the entire spill puddle was frozen at 9 degrees F, it is apparent that the amount of MEG was rather small.	The contaminated gravel was cleaned up with a loader and hand tools. Contaminated material was placed in dump truck to be hauled to disposal facility.	All of the contaminated gravel was taken to pad-3 for disposal.	This material is being provided to fulfill the spill notification requirements under 18 ACC 75.300.
6/11/01	2001-IR-101566	Well Pad F	Hydraulic Fluid	50.00	swedgelock type tubing fitting for F-8 SSV came loose behind skid 52. The entire tank of hydraulic fluid, aprox 50 gallons leaked through this fitting. This line was recently worked on as part of the debottlenecking project . There is speculation the fitting was improperly made up. This incident will be investigated further.	Vac truck and sorbents were used to clean affected ponded water and pipes.	The hydraulic fluid and water were taken to Pad 3 disposal facility. The sorbents were taken to the NSB oily waste dumpster.	This information is being provided to fulfill spill notification requirements under 18 ACC75.300
6/25/01	2001-IR-101731	Well Pad J	Crude Oil	50.00	Per spill report: " while conducting summer pad clean up the crew discovered an old crude oil spill... The spill was estimated at 50 gallons by ACS spill technicians. The source and cause of the spill is unknown at this time. It is also unknown how long the spill has been on the pad due to clean gravel on top of it. " Per Field OTL: An attempt was made to reasearch who may have been responsible for this spill. Given the spill may be years old there is simply no way to determine culpability. The area near J-18 has been used to stack rigs several times in recent years. A rig is certainly an easy target to point at as a suspect,having the means to spread gravel , but the reality is there are a myriad of potential culprits. Any attempt to assign blame would be pure conjecture and not fair to anyone. I am also confident this type of cover up activity was rare in the past and no longer occurs today. There are no actions other than continue clean up opertions	Material will be excavated using heavy equipment and is currently waiting for approval.	The material will be taken to Drill Site 4 grind and inject facility.	This information is being provided to fulfill spill notification requirments under 18 ACC75.300
11/18/06	2006-IR-2055453	Seawater Injection Plant, Seawater Injection Plant Module 49401outside the west wall., FS1/SIP/STP	Seawater	50.00	Appears that the insulation was damaged causeing the line to freeze and leak water out of the line.	The frozen seawater that was contained on the pipe was knocked down and a loader and dump box was used to recover the spilled seawater on the ground.	Contaminated snow and ice was taken to T-pad for disposal.	It was determind that the cause due to a frozen pipe. NOTE: This is the Final report.
9/30/05	2005-IR-1563355	Drill Site 15, DS 15 Manifold Bldg., FS3	Sewage	50.00	While the operator was investigating a loss of potable water-pressure for the bathroom at DS-15 control room, a valve was inadvertently opened on the enviro-vac sewage tank drain line, which caused the release of sewage water outside to the gravel pad.	Spill response team used equipment to scrape up frozen sewage water with Bobcat and loaded gravel into dump truck.	Material was brought to Pad 3 for disposal.	Agencies were notified of release.NRC # 774530
5/25/07	2007-IR-2276215	Well Pad V, V-pad	Drilling Mud	50.00	At approximately 09:30 the pad operator discovered what appeared to be drilling fluids on the south side of V-pad.	Shovels were used to pick up contaminated material and put in drums.	The material was sent to the Hazardous waste facility where it was tested for hazardous waste characteristics. No hazardous characteristics were identified so the material will be shipped to a TSDF to be disposed as a non-hazardous waste.	Initial nofiication was sent on 05-27-07

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/17/01	2001-IR-95877	Santa Fe Pad	Sewage	50.00	CSTF operator noticed water leaking out of the back compartment of the sewage truck and onto the floor when he arrived at the A4W1. Contacted Environmental and took necessary steps to get a Peak truck to offload the gray water, so the source of the leak could be determined. Approximately 45 gallons were recovered from inside the building and 5 gallons cleaned up and properly disposed from outside the building. The leaking valve will be replaced on the sewage truck.	A Vac Truck came and off loaded the remaining fluids from the truck and sucked up the liquids from the floor. A loader was used to scrap the frozen material from the frozen snow covered pad.	The frozen material was put into a waste accumulation bin and will be taken to Pad 3	The valve will be replaced.
9/11/05	2005-IR-1539014	GC-2, GC2/SAT	MEG	50.00	During restart of the GC a Glycol leak was discovered coming from the heat trace on the outlet of V-9557.	The standing liquids were recovered using a hand pump. The gravel was removed using a loading and hand tools.	The liquids were taken to the GPB waste coordinator for proper disposal, the gravel was taken to Pad 3 disposal facility.	
10/10/04	2004-IR-1084354	GC-1, GC-1 Deluge Pipe, GC1	MEG	50.00	Discoloration of the snow was identified by Operators and SRT was notified. Once SRT was on sight they dtermined that there was a spill of ~55 gals of glycol into the containment pit of the deluge piping.	The contaminated snow, ice and gravel has been cleaned up using a Bobcat trimmer and loader.	All of the recovered contaminated materials have been taken to the T-pad solid waste storage area.	
8/16/03	2003-IR-595194	BOC, under BOC kitchen	Sewage	50.00	A plugged main sewage line located under the BOC kitchen caused fluid to back up and escape through the lid of a grease trap.	The secondary containment pit fluids were removed with sewage truck as well as the puddles on the gravel pad. The contaminated gravel was removed with a loader & dump truck. Lime was placed on pad area and containment pit was disinfected with a water/bleach solution.	Liquids will be taken to sewage plant or Pad-3. Gravel has been taken to Pad-3.	
4/29/03	2003-IR-497487	BOC, East side of the BOC	Sewage	50.00	The wastwater line in the plumbing riser of the BOC proper, on the east side, seperated. A minimal amount of raw sewage leaked in to the utilidoor and on to the pad.	All of the contaminated snow and gravel was removed with a loader, bobcat and dumptruck.	All of the contaminated material has been taken to T-pad storage pit.	
11/4/06	2006-IR-2040030	Drill Site L4, L-4 # 10, GPMA	Diesel	50.00	Fuel line on portable generator failed and spilled @40 gal diesel into generator, which leaked out. There was approximately 30 gal in the secondary containment under the generator, and approximately 10 gal that overflowed onto the pad.	Trimmer, Loader, and dump box were used to remove contaminated gravel. Absorbent's were used to soak up standing fluid's.	Material will be brought to Pad 3 for disposal.	
2/14/01	2001-IR-100523	Northern Gas Injection (NGI)	Seawater	50.00	The 3" threaded companion flange on the #1 Brine Storage tank started to leaking.	Recovered product with super sucker, bobcat and hand tools	Product taken to Pad 3 for disposal	
9/11/03	2003-IR-617837	Well Pad B, Impoundment area on southern tip of B-Pad, GC3	Crude Oil	50.00	During annual pad cleanup, personnel discovered this material. What smells (in areas where still soft) and looks (in areas where hardened) like a low grade asphalt pavement is visible in many areas around the entire circumference of this pit. After talking with Jim Chatham it is probably the heavy ends of crude left over in an old exploration flare pit. This was reported to agencies since hydrocarbons are in direct contact with tundra and sheen is visible in the tundra water inside this impoundment. Jim Chatham has seen similar evidence in many old flare pits across the slope. Neither our contaminated sites nor reserve pit programs address or are required to address these old flare pits at this time.	Tom DeRuyter (ADEC) advised that cleanup be coordinated with the DEC solid waste group and that he had no concerns regarding an immediate cleanup response. Jim Chatham has seen similar evidence in many old flare pits across the slope. Neither our contaminated sites nor reserve pit programs address or are required to address these old flare pits at this time. There is currently no cleanup effort underway or planned.	To be determined.	
5/12/00	2000-IR-94962	Well Pad A	Seawater	49.99	At approximately 0200 hours on 5/12/00 Peak Oilfield Services had rigged up to an upright tank to load it with seawater. The tank was staged for upcoming wellwork on well A-01. On location to assist him was a PE Support Operator (PESO). The Peak operator began to fill the tank with seawater treated with friction reducer. After 25 bbls had been offloaded into the tank both the Peak operator and PESO noticed that the tank was overflowing. They immediately stopped offloading and began to pull a vacuum on the tank to lower the tank level. The PESO then notified his supervisor of the spill and the Spill Response Tech was notified immediately thereafter. Approximately 50 gallons of seawater was spilled onto the pad A spill review was held at 0700 hours on 5/12/00 by the Well Ops TL, PESO Foreman, Peak Foreman, and the involved parties. The Peak Operator and PESO both agreed that they were operating under the assumption that the tank was empty so neither strapped the tank prior to loading operations. The tundra was not effected and the involved parties were 8 hours into their 12 hour shift and fatigue was not a factor in the incident.	A loader was used to remove all material from frozen gravel pad.	Material was taken to Phillips Pad 3 for disposal.	A spill review was held at 0700 hours on 5/12/00 by the Well Ops TL, PESO Foreman, Peak Foreman, and the involved parties. The Peak Operator and PESO both agreed that they were operating under the assumption that the tank was empty so neither strapped the

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/3/97	1997-IR-98707	G&I Facility	Crude Oil	49.99	"While using blowdown system piping for depressuring wellhead annuli, entrapped liquids in the blowdown piping were carried out with the gas into the relief pit. High winds caused a mist to spray onto gravel bad and road. Approximately 1 gallon misted	"Used shovels, brooms and trash cans to pick up contaminated snow. During June 1997 the gravel was sampled near the relief pit where extensive clean up occured. The results showed ND (see diagram and lab results). Contaminated gravel on the inside of		"While using blowdown system piping for depressuring wellhead annuli, entrapped liquids in the blowdown piping were carried out with the gas into the relief pit. High winds caused a mist to spray onto gravel bad and road. Approximately 1 gallon misted
7/11/97	1997-IR-98692	Flow Station 3	MEG	49.99	External corrosion of the heat trace tubing under wet insulation. Two carbon steel tubing segments were incorrectly installed in a run of stainless steel tubing. The carbon steel tubing preferentially corroded and one segment developed a pinhole leak	A sandpiper pump was used to remove the contaminated water from the tundra and a vac truck was used to suck up the material from the sump in module 4929. - Contaminated water was taken to Pad 3 for injection on 7/14/97.		External corrosion of the heat trace tubing under wet insulation. Two carbon steel tubing segments were incorrectly installed in a run of stainless steel tubing. The carbon steel tubing preferentially corroded and one segment developed a pinhole leak
7/27/95	1995-IR-98278	Flow Station 2	Produced Water	49.99	"Union fitting on a drain line off bottom of PWI pump cracked, causing water to spray inside module. Approximately 25 barrels were contained inside the module. 50 gallons ran out through the loading dock door onto the gravel pad below module."	The material spilled inside the building was squeegied into a sump and a vac truck was used to remove it from the sump. A bobcat and loader were used to remove the contaminated gravel. - The fluids removed by the vac truck were taken to FS1 for recycle.		"Union fitting on a drain line off bottom of PWI pump cracked, causing water to spray inside module. Approximately 25 barrels were contained inside the module. 50 gallons ran out through the loading dock door onto the gravel pad below module."
8/5/96	1996-IR-89507	Well Pad J	Crude Oil	49.99	J pad was being depressured for maintenance work in Skid 54. The manifold building held 650 psi that needed to be bled to zero through the slop oil tank. Typically, one operator monitors tank level while bleeding gas pressure and liquid into the vessel then shuts in the inlet when the level reaches 50-75%. During this time the operator either asks for someone to monitor the outside vent or checks it himself. In this instance a Vac truck was connected to a manual discharge line for deinventorying the vessel. Two operators were performing this operation; one inside controlling the bleed and block valves and monitoring the level and the other operator outside observing the vent. During the first two vessels-full of liquid (and subsequent draining), there was no problem. The vessel held back pressure between 50 - 80 psi. On the third filling of the vessel, the manifold pressure was down to 200 psi. After the slop tank reached 50% level, the inside man shut the inlet valve and the slop tank continued to depressure as on the other two times. The manual discharge valve was in closed position. Several moments after the inlet valve was closed, the outside man observed oil blowing out the roof vent. He notified the inside man to shut the vent outlet valve. The supervisor was notified. The sightglass (on the knock out pot installed on the outlet vent line) showed to be full of oil, even though the slop tank level stayed at 50%. The supervisor and several operators walked throught the incident and concurred that the steps followed were typical of similar slop tank usage by most field operators. The steps were duplicated at J pad with extra operators manning other valves. The same results occurred except the vent outlet line was shut before more oil blew out the vent. The test confirmed the oil "boiled" into the knock-out pot sight glass 5-10 seconds after the the inlet valve was closed and the vessel pressure dropped from 50 psi towards zero.		The used sorbents were placed in a NSB Oily Waste dumpster for future incineration. Tthe exempt contaminated gravel was taken to Arco Pad 3. The liquid resulting from pressure washing will be taken to GC 1 to be recycled.	J Pad was being depressured to do valve maintenance. While draining the manifold into the slop tank, crude oil sprayed out of the atmospheric vent on the slop tank, onto the flowlines and gravel behind the module.
4/3/94	1994-IR-88452	GC-1 Pad	Crude Oil	49.99	On Sunday morning, GC-1 had a power outage, due to melting snow hitting a transformer, and shorting it out temporarily. The power outage caused all electrical equipment and all process equipment to shut down. During the shutdown, the process systems did not respond as they should have, and three production banks did not shut down on high levels. The production fluids overflowed into V-120A LP compressor suction knockout drum, andd then into the flare system. The fluids were pushed out the flare lines and out the #3 LP flare tip. There was a light wind at the time. Most of the liquids seemed to have burned, but approximately 50 gallons of oil mist were spread across the gravel of the flare pad, just down wind of the flare. Access to the pad was granted during the 15 April shutdown and the pad was cleaned up.		Thirty-one yards of non-hazardous contaminated gravel and eight yards of non-hazardous contaminated snow were hauled to Pad 3 for disposal.	A power failure at the plant caused an upset in a backup system, which allowed crude oil to carry over into the flare system. Crude oil sprayed out of the flare tip and dropped onto the flare pad.
12/20/93	1993-IR-88437	Well Pad A	Crude Oil	49.99	A-Pad Operator had safed out the 24" LDF, from skid #56 to GC-3, in order to remove a 24" slip blind. When the slip blind was installed on 12/15/93 there was no fluid in the pipe. However, when the slip blind was removed a substantial amount of fluid had accumulated. There was no containment dike being utilized. Due to the amount of fluid present a containment dike would not have contained the spill. This incident resulted in approximately 50 gallons of crude being spilled down the side of Skid #56 and onto the pad.		The remaining contaminated material was taken to Arco Pad 3.	A blind on the LDF (coming out of skid 56) was removed allowing residue oil in the LDF to escape onto the roof of skid 56 and then down the side of the skid and onto the ground.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/3/93	1993-IR-87622	Spine Road	Diesel	49.99	THE OPERATOR OF NATCHIQ TANKER TT-39 WAS TRAVELING FROM X-PAD TO GC-1 WHEN HE WAS FLAGGED DOWN BY BPX SAFETY AND ENVIRONMENTAL BECAUSE THEY NOTICED FUEL LEAKING FROM HIS TRACTOR. AN INVESTIGATION REVEALED THAT THE CROSSOVER EQUALIZER HOSE BETWEEN THE TWO (100 GAL.) FUEL TANKS OF THE TRACTOR WAS SEPARATED FROM THE RIGHT FUEL TANK AT THE FITTING. THE FITTING HAD BEEN FORCIBLY SEPARATED FROM THE FUEL TANK BY AN UNKNOWN OBJECT, (POSSIBLY A ROCK OR A SNOWDRIFT). THIS INCIDENT RESULTED IN APPROXIMATELY 50 GALLONS OF DIESEL BEING SPILLED ONTO THE SPINE ROAD AND AN ADJACENT DRIVE INTO GC-1. THIS PARTICUALR TANKER IS OWNED AND MAINTAINED BY NATCHIQ.		Contaminated snow was taken to the A3W2 snowmelter. Gravel will be taken to Pad 3.	Tanker truck developed a leak, possibly caused by a rock being projected into the crossover line fitting, breaking it off.
2/23/92	1992-IR-87248	Well Pad Y	Seawater	49.99	Due to extreme temperature metal embrittlement, a flange broke on frac tank, allowing sea water to spill onto pad. Contaminated snow and ice scraped up with bucket loader and taken to T-Pad pit. Flange was replaced.		Contaminated material taken to T-Pad pit.	Due to extreme temperature metal embrittlement, a flange broke on frac tank, allowing sea water to spill onto pad.
7/10/93	1993-IR-100893	West Dock	Diesel	49.99	Diesel supply line at PT. MAC office complex leaked around compression fitting.	A supersucker was used to remove the contaminated gravel. Based on sample results the clean-up is considered to be 100% complete. - The contaminated gravel was taken to Pad 3 West holding pit for future remediation.		Diesel supply line at PT. MAC office complex leaked around compression fitting.
7/23/94	1994-IR-98236	Flow Station 2	Lube Oil	49.99	Surface contamination was observed at several places under vents of module.	Metis/Cleanup		Surface contamination was observed at several places under vents of module.
2/4/00	2000-IR-95978	Seawater Injection Plant	Seawater	49.99	"Initial investigation turned up corrosion on ""In Soffit"" drain piping."	"The SRT was called to clean up the spill They used jackhammers to break up the frozen seawater. The material was shoveled up, placed into wheelbarrels and transferred to a dumpbox."	The material was taken to the pad 3 east snow pit for disposal.	"Initial investigation turned up corrosion on ""In Soffit"" drain piping."
12/14/96	1996-IR-98652	Drill Site Maintenance	Sewage	49.99	Pump failure on lift station associated with restrooms in DSM building.	Used guzzler to pick up contaminated snow and liquids. - Contaminated snow and liquids were taken to the WWTP on 12/14/96 to be recycled.		Pump failure on lift station associated with restrooms in DSM building.
6/28/92	1992-IR-87234	WSW	Seawater	49.99	The vent remained open on the vac truck while sea water was being loaded. The clean up methods was to pour120 gallons of fresh water on top of contaminated area of pad. The driver was cautioned to monitor vents and use portable liners.		None required.	Vent remained open on vac truck while sea water was being loaded.
8/12/90	1990-IR-97075	Flow Station 3	Produced Water	49.99	Module sump overfilled during draining of PW system.	YES -		Module sump overfilled during draining of PW system.
8/1/91	1991-IR-100780	Lisburne Production Center	Diesel	49.99	Valve failure caused bladder overflow.	YES -		Valve failure caused bladder overflow.
6/16/91	1991-IR-97463	Drill Site 14	Diesel	49.99	Snow meltwater flooded well cellar.	YES -		Snow meltwater flooded well cellar.
3/25/93	1993-IR-97422	Seawater Injection Plant	Seawater	49.99	Overfilled tanker truck.	Metis/Cleanup		Overfilled tanker truck.
4/9/81	1981-IR-96069	COTU Facility, Not specified	Diesel	49.99	Hose still in trunk	Not specified	Not specified	Not specified
8/29/88	1988-IR-96492	Drill Site 07, Not specified	Crude Oil	49.99	Sloshed out of vent	Not specified	Not specified	Not specified
8/4/86	1986-IR-100687	Not specified	Crude Oil	49.99	Flare vented crude	Not specified	Not specified	Not specified
1/8/89	1989-IR-100836	Not specified	Diesel	49.99	Press vented - ice	Not specified	Not specified	Not specified
8/8/81	1981-IR-96054	Central Compressor Plant, Not specified	MEG	49.99	Pop valves opened	Not specified	Not specified	Not specified
11/11/88	1988-IR-96264	Drill Site 05, Not specified	Crude Oil	49.99	Connection failed	Not specified	Not specified	Not specified
4/24/88	1988-IR-100710	Not specified	Diesel	49.99	Valve stuck open	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/5/88	1988-IR-96413	Drill Site 02, Not specified	Crude Oil	49.99	Discovered spill	Not specified	Not specified	Not specified
5/31/81	1981-IR-96044	Pad 3, Not specified	Diesel	49.99	Overflowed tank	Not specified	Not specified	Not specified
6/24/82	1982-IR-96085	COTU Facility, Not specified	Diesel	49.99	Leak from tank	Not specified	Not specified	Not specified
2/17/88	1988-IR-96596	Drill Site 18, Not specified	MEG	49.99	Barrel spilled	Not specified	Not specified	Not specified
11/25/81	1981-IR-96062	COTU Facility, Not specified	Diesel	49.99	Leaking valve	Not specified	Not specified	Not specified
8/9/82	1982-IR-96088	Drill Site 13, Not specified	Crude Oil	49.99	Flange leak	Not specified	Not specified	Not specified
2/9/83	1983-IR-96135	Drill Site 03, Not specified	Crude Oil	49.99	Valve leak	Not specified	Not specified	Not specified
6/19/00	2000-IR-95048	Well Pad S	Crude Oil	49.99	S-pad pipe inspectors heard a hissing sound in a pipe rack on the edge of the pad. Noticed oil drips from flowline dropping into snow cantained in reserve pit. Pad operator determined the leaking flowline to be the old S-12 flowline which is currently used as the test header for production wells flowing through skid 551. The line goes to Module 58 and ties into the test header there. While the extent of the damage is unknown at this time it appears to be of the " pinhole " variety. It is also unknown how long this line has been leaking.	Material was cleaned up using Super Sucker and hand tools.	Material was taken to Drill Site 4 Grind and Inject Facility.	
10/27/01	2001-IR-128409	Drill Site 17, Drill Site 17 inside and under the manifold building	Hydraulic Fluid	48.00	A 2000 PSIG "WIKA" brand pressure gauge, mounted on a hydraulic valve actuator assembly for DS17 's MI ESD valve 2771-F1656AV, failed. Hydraulic fluid, from the central supply system, pumped out of the failed guage. Approximately 42 gallons of hydraulic fluid was recovered inside the manifold building and another 6 gallons leaked into the soffit and gravel underneath the manifold building.	The inside leak was cleaned up with absorbent pads. Contaminated snow and gravel was removed. Soffit panels that had been in contact with product were removed.	Removal of the contaminated gravel and snow to the Pad 3. Soffit panels were striped of foam insulation, sheet metal was cleaned and taken to solid waste facility. The foam was taken to oily waste dumpster.	
8/2/88	1988-IR-96401	Drill Site 02, Not specified	Diesel	47.99	Valve cracked open	Not specified	Not specified	Not specified
10/3/86	1986-IR-96161	Flow Station 1, Not specified	Methanol	46.99	Over filled tanker	Not specified	Not specified	Not specified
2/19/02	2002-IR-169822	Flow Station 1, Flow Station 1	Fresh Water	46.00	While making routine checks of outside area (22:00), the Operator found a spill inside / outside Slop Oil Tank module 4921. Apparently, a O Ring on the off loading line strainer inside the module was not fully seated. While the last truck was off loading, this allowed the fluid to spill out of the strainer onto the floor. Diesel /Crude / Water spilled inside the module and some also spilled to the containment pit outside through cracks in the module floor. The spill was reported to 5700 promptly and cleanup inside the module was completed by Operations.	Recovered materials with Vac Truck and hand tools.	4 cubic yards and 365 barrels of material taken to Pad 3 for disposal.	Initial report submitted on 2/19/02.
2/26/01	2001-IR-100600	Drill Site 18	Methanol	45.00	While conducting a freeze protect job at DS 18-2, the hot oil crew opened up valves to the methanol pup trailer and pumped 5 bbls of methanol, shutdown the shut in the methanol pup trailer at interval valve on hot oil unit. They elected to not to double block in methanol trailer because they would only be pumping 20 minutes. The spill champion had just completed a walk around when the operator stated it was time to switch to pumping down the tubing. He stepped out of the unit and noticed the pup trailer overflowing. 45 gallons of methanol spilled on the drillsite pad. The operator immediately began sucking back on pup trailer to reduce volume on it.	The SRT cleaned up the contaminated material and place it into an open-top tank	Fluids beneficially reused for freeze protection. Gravel disposed of as hazwaste.	Testing of gravel upon completion of cleanup showed none detect for methanol. This information is being provided to ADEC per 18 AAC 75.300.
2/1/07	2007-IR-2140931	Flow Station 3, 4910 and 4935, FS3	Produced Water	45.00	The operators were working on thawing a frozen section of sump drain piping by circulating hot produced water from 4935 to 4910 then pumping it to the CHD using a sandpiper pump. The sump drain piping downstream of 4910 between 4911 is suspect of having an ice plug. It was thought the heat from the water would thaw the ice plugThe 4935 module had crude across a 30¿ x 80¿ area of the module. The 4910 module was 99% produced water with 1% crude covering an area roughly the same size. The oil operator isolated the source water stopping the flow out of the sumps. The 4935 area was checked for benzene and PPE was distributed for clean up. A majority of the crude in 4935 was cleaned up by the operators and maintenance folks leaving small pockets in the corners and tight areas.	Hand tools and wet vacs were used to recover the fluids and put back in the facility sumps to be recycled. Absorband pads and mops were used to clean up the residue on the module floor.	Recovered fluids were put back into the facility sump to be recycled. Absorbant pads were disposed as oily waste.	Initial notification made on 08:05 2/2/07.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/16/05	2005-IR-1547731	GC-2 Pad, GC2/SAT	MEG	45.00	As the unit operator was making his normal rounds he discovered glycol leaking from the heat trace on one of the outlets lines from V-9557. The operator shutdown the circulation pumps and isolated the heat trace to stop the leak. 5700 spill line was called in accordance to bp¿s policies.	The free-standing liquid on the pad was removed with a hand pump and placed into a 55-gallon drum. The residual liquid was soaked up with absorbent pads. The contaminated gravel was removed with loader, dump truck and hand tools.	Liquids were taken to Haz-waste shop to be disposed of accordingly with sample results. The contaminated gravel has been taken to Pad-3. The absorbent material was taken to an approved NSB oily waste dumpster.	
11/14/04	2004-IR-1128712	COTU Facility, Crude Oil Topping Unit under the walkway between the air compressor module and the main bldg., FS2/COTU	MEG	45.00	Operator making his rounds noticed glycol on the pad beneath a utilaway. On further investigationhe discovered a leakfrom a 1" insulated line that provides bldg heat glycol to the air compressor module. Operator blocked in the line and notified the spill response team.	Contaminated snow and gravel will be recovered with hand tools and placed into an open top tank.	Snow and gravel were transported to pad 3 for storage and future remediation or disposal.	
6/3/06	2006-IR-1857237	Apex Gas Inj Drill Site, AGI-07A Cellar Box, FS1/SIP/STP	Drilling Mud	45.00	After removing herculite that was banded to wellhead for spill containment to perform post rig pad inspection, LSND drilling mud was found contained in cellar box under the herculite. Fluid was reported to 5700. ACS was dispatched to the location and amount was determined to be approximately 45 gals by ACS Spill Tech.	A super Sucker was used to recover the mud that was contained in the well cellar.	The material was taken to G&I for disposal.	
3/23/91	1991-IR-97662	Drill Site 09	Diesel	45.00	Failed to disconnect tank.	YES -		Failed to disconnect tank.
7/11/88	1988-IR-96462	Drill Site 14, Not specified	Crude Oil	45.00	Factory weld failed	Not specified	Not specified	Not specified
3/27/06	2006-IR-1774840	Lisburne Production Center, LPC Pad, GPMA	Diesel	43.00	The field fueler had arrived to fuel a compressor at LPC and pulled up to the fuel fill spout which was identified by a label stating "Fill Here". He proceded to fuel the tank through the fill spout. While fueling he noted that some fuel was hitting the ground at which point he stopped filling the tank to investigate. He noted that behind the wall that the spout passed through, the spout was not connected to the tank and that the fill point had been relocated but that the lableling had not been changed.	Hand tools and loader were used to remove contaminated material.	Material is in melt drum's and will go to hydrocarbon recycle. The melted snow and diesel was taken to GC-2 for recycle.	
10/15/07	2007-IR-2439993	Flow Station 2, DS 16 D Common Line first expansion joint, second elbow, from the FS2 pad., FS2/COTU	Produced Water	42.00	Operations was trying to thaw a freeze plug close to the FS2 end of the DS16 D commonline. 45bls of Methanol was pumped into the commonline in an effort to thaw ice plug. This process raised the line pressure above 300lbs. The line was left at this pressure while a FLIR camera was used to try and pin point the cold section. At approx. 1315 hrs the pressure dropped quickly. Operations investigating the sudden drop discovered a spill event just off the edge of the FS2 Pad. Changed the Release To: to Tundra and the request of Mike McDaniel. Melba Wallis 11/8/07	Free liquid contaminates were vacuumed off the ice. The ice was melted and the area flushed with warm water. Fluids were recovered using vacuum truck.	Recovered fluids sent to Pad 3.	15 Samples taken as per ADEC. 2 samples show contamination above clean up levels. Clean up will resume as soon as pipe repair is complete. It should be noted that the methanol/water mixture spilled was 60% methanol / 40% water.
1/4/04	2004-IR-733213	West Gas Injection, West Gas Injection Area. WGI-05, Non Process Area	Diesel	42.00	On previous trip, prior to tripping out of hole, the 13 3/8" Shoe and Casing were pressure test to 2,500 psi/15 min (good test). Prepared to run in hole with next Bottom Hole Assembly. Well was checked for pressure and no pressure was observed. Opened Blind Rams and started to run in hole with Bottom Hole Assembly when Well unloaded several barrels of 9.8 lb/gal Brine and Diesel. Estimated 1 bbl. went over the wind wall which was carried by high winds accross the Pad and off onto the tundra.	Material on pad,and road was scraped with a loader and Grader and removed with a dump box. Clean up crew used hand tools and snow machines with trailers to remove contaminated snow from tundra.	Material was taken to G&I for disposal.	All agencies were notified. Toivo Luick is on slope, and obseving clean up. Note: This material is a mixture of Diesel/Brine. There is no heading in Traction for Brine.
6/11/03	2003-IR-534893	Drill Site 12, DS 12-28	Seawater	42.00	Operator of vehicle #82178, trailer # 86057, hooked up to and started to off-load into the inside tank, of two (2), then climbed the other tank, which he had off-loaded into prior, to strap it for levels. When he came back down to the ground, the tank he was off-loading into overflowed onto the ground. The second employee on location, being mentored, immediately shut down the off-loading operation.	Loader, and dump box were used to remove material from site.	Contaminated material was brought to Pad 3 for diaposal.	Product was double-slick KCL. Notifications were made. After Upright Tanks were moved, remainder of contaminated gravel was removed. NOTE: This is the Final Report.
4/18/06	2006-IR-1800256	Northern Gas Injection (NGI), Well pad NGI-08, Non Process Area	Fresh Water	42.00	After the rig up and safety meeting for a cement liner job for 4 ES, the operators transfered mix water from one batch mixer to another. After the transfer was done the operator started to roll the mix water, and found a 4" cap was not installed on the suction manifold. The mix water came out of the uncapped line, and flowed to the down hill side of the van and made it out of the van containment and onto the snow covered pad. Notifications were made to Company Representaive, SRT and SLB management. Effected area of pad will be remediated by SRT at completion of job and equipment is moved.	Loader, and a dump box were used to remove contaminated material.	material was brought to T Pad for disposal.	Agencies were notifided of release. NOTE: This Fluid is a make up fresh water and Latex cement mixer.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/6/05	2005-IR-1571230	Drill Site 09, 3/4 inch chemical line next to pipe alley access road at Drill Site 9., FS2/COTU	Corrosion Inhibitor	42.00	While performing his normal rounds, the FS2 area chemical operator noticed that the corrosion inhibitor pump at ds09 had stopped. Upon further investigation he determined that a "high flow" alarm had caused the shut down. He immediately began to investigate the cause and discovered that a 3/4 inch main chemical trunk line had separated at a tee fitting. The chemical operator made all proper notifications and SRT cleaned up the area. Volume was determined to be 42 gallons.	Standing fluids were sucked up with a vac truck. Hot water was used to flush affected area and melt ice, which then was sucked up with a vac truck.	All fluids were brought to Pad 3 for disposal	All agencies were notified of the release, as well as NRC.
1/15/07	2007-IR-2122656	Well Pad Z, Flow back tank # 73024, GC2/SAT	Hydrochloric Acid (HCL)	42.00	While flowing back post acid job on Z-24, employees observed well bore fluid leaking from a broken weld on tank # 73024. Upon further investigation it was discovered that the broken weld was located above the 80% level of the tank. ASRC policy states that no tank shall exceed the 80% level.	The crew onsite placed absorbent pads down to soak up liquid. The material inside the pit area will be removed using hand tools. The tank will be wiped down with absorbent pads.	Contaminated absorbent pads will be taken to an approved NSB oily waste dumpster. The snow and ice will be taken to Grind & Inject Facility.	
1/5/04	2004-IR-736119	Well Pad S, S-pad at the 7ES Drill, GC2/SAT	Drilling Mud	42.00	While a super sucker was loading drilling mud and fluid from the mud pits material leaked out of the coupling and onto the frozen snow covered pad. ACS spill techs were notified, they estimated that one Barrel of material discharged onto the ground. The conditions were phase 2-3 and the material was allowed to freeze overnight removed the next day put back into the drilling cuttings box.	The accessable material was chipped off snow covered pad and shoveled into loader bucket by the rig crew. It was then placed back into the cuttings tank for disposal. Once the rig moved off the pad the ACS spill techs recovered the remaining material, formerly unaccessable due to the rig's placement, with a loader.	All material has been taken to Grind and Inject Facility.	
2/28/98	1998-IR-90621	Well Pad Q	Seawater	42.00	At 0800 hrs 2/28/98, Peak Oilfield Ser. Vac. truck was sucking 2% KCL water out the Nordic CTD Unit Mud pits. The camlock fitting was secured to the rig outlet and retainer clip was in place. The Fluid transfer sheet was filled out and signed. The Vac truck had already taken 100bbl of 2% KCL on board. The evidence indicates that the retainer clip was not properly installed and walked up and off the fitting when the hose vibrated. The Cam-lock dogs vibrated open and the fitting disengaged and fell off the rig outlet. The Nordic Driller was acting as spill watch. He was watching the camlock at the time of the incident and shut his valve while the Peak driver isolated the truck. An area of 2' * 4' was exposed to approximately 1 bbl (42 gal) of 2% KCL water. Enviromental was called at 0810 hrs 2/28/98 and a phone spill report was issued. The BP Well Ops Team Leader (Al Schmoyer) was notified at 0815 hrs 2/28/97. The rig crew cleaned up the spill and placed the residue in a spill proof container.		Class II material will be taken from the cuttings tank and disposed at CC2A.	Equipment failure- a Peak vac truck was removing 2% KCl water from Nordic CTD Unit mud pits (Q Pad), when the hose camlock fell off the rig (male section) outlet fitting. The driller immediately shut off his valve and the truck was isolated. Approximate
11/27/93	1993-IR-89873	Well Pad R	Drilling Mud	42.00	Vehicle used by Veco contractor hauling drilling mud from R Pad to Ball Mill had a faulty Kamloc, which worked loose. Approximately 10 gallons of drilling mud spilled at the start of the R-Pad access road. Another 32 gallons spilled on the Ball Mill access road.		Material was taken to T-Pad for disposal in the spring.	Vehicle used by Veco contractor hauling drilling mud from R Pad to Ball Mill had a faulty camlock, which worked loose. Approximately 10 gallons of drilling mud spilled at the start of the R-Pad access road. Another 32 gallons spilled on the Ball Mill acc
3/10/95	1995-IR-98573	Drill Site 04	Crude Oil	42.00	*The spill occurred while circulating fluids out of the well with a coil tubing unit. The returns were being flowed into a tiger tank. The tank level had been checked earlier but personnel were unaware that the well had begun flowing back fluids in ad	"SRT and on-site personnel used sorbents, loader, scraper, and dump truck to pick up oil and contaminated snow, ice and gravel. - Contaminated snow and ice were taken to Pad 3 East Pit on 3/11, 3/14 and 3/16/95 to hold for future melting and injection.		*The spill occurred while circulating fluids out of the well with a coil tubing unit. The returns were being flowed into a tiger tank. The tank level had been checked earlier but personnel were unaware that the well had begun flowing back fluids in ad
2/24/98	1998-IR-100913	Point MacIntyre	Diesel	42.00	"During fracturing, treesave cups did not set causing 1275 psi on well releasing past cups with gas head allowing flow into round 100 bbl slop tank. This caused 42 gals to spill out of tank onto snow covered gravel pad."	"Used Bobcat, autocar with box, and Doyon 14 loader to pick up contaminated snow. Used hand shovels in cellar and between well houses. - Contaminated snow was taken to Pad 3 East Pit on 2/25/98 for future melting and injection at Pad 3 WIF."		"During fracturing, treesave cups did not set causing 1275 psi on well releasing past cups with gas head allowing flow into round 100 bbl slop tank. This caused 42 gals to spill out of tank onto snow covered gravel pad."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/27/94	1994-IR-86362	Well Pad P	Seawater	42.00	B.J. Services personnel were cleaning up their pump truck when fire hose used as a washdown hose developed a leak.		The liquids were recovered from the rags and re-used. The rags were deposited in a NS Oily Waste Dumpster.	While pumping sea water from one BJ Service pump truck to another during demob operations, a 3" hose busted causing approx. 42 gallons of seawater to spill. The hose being used was a fire hose.
12/27/94	1994-IR-85961	Well Pad H	Seawater	42.00	Frac tanks were being filled for frac job. Water leaked by a closed valve into manifold at front of tanks. A hammer union on the manifold leaked, causing a 40-gallon seawater spill.		Contaminated material will be taken to Pad 3	A 8" butterfly valve on the frac tank was believed to have leaked due to an improper seal. This allowed seawater to leak into the manifold set up and out of a loose union cap on the manifold.
1/12/98	1998-IR-100660	Lisburne Production Center	Crude Oil	42.00	"During blow down operation, gas hit drain line causing pressure spike to open pressure relief valve on slop oil tank. Liquid trapped behind valve was released through vent stack on tank."	"Used loader and bobcat to remove contaminated snow. Cleaned up with hand shovels and brooms. - Using loader and bobcat, and hand shovels contaminated snow was removed and manifested to Pad 3 East Pit (snow)."		"During blow down operation, gas hit drain line causing pressure spike to open pressure relief valve on slop oil tank. Liquid trapped behind valve was released through vent stack on tank."
2/10/00	2000-IR-95976	G&I Facility	Seawater	42.00	"Ball valve on high pressure washout hose in supersucker tent defective. When the facility came on-line after a brief shutdown, the seawater leaked out of the hose onto the pad."	The spill was cleaned up by the G&I crew by using a loader to scoop up the material.		"Ball valve on high pressure washout hose in supersucker tent defective. When the facility came on-line after a brief shutdown, the seawater leaked out of the hose onto the pad."
11/29/92	1992-IR-86636	Well Pad S	Methanol	42.00	Hose fitting cracked on triplex pump while injecting methanol into well annulus overfilling the portable liner. The total volume spilled was 84 gallons of 50% methanol solution. The contaminated snow was picked up with a super sucker vac truck and taken to A3W2. The hose fitting was replaced.		Contaminated snow taken to A3W2 melt tank for recovery.	Hose fitting cracked on triplex pump while injecting methanol into well annulus, overfilling portable liner. Total volume spilled was 84 gallons of 50 % mehanol solution.
11/29/92	1992-IR-86636	Well Pad S	Produced Water	42.00	Hose fitting cracked on triplex pump while injecting methanol into well annulus overfilling the portable liner. The total volume spilled was 84 gallons of 50% methanol solution. The contaminated snow was picked up with a super sucker vac truck and taken to A3W2. The hose fitting was replaced.		Contaminated snow taken to A3W2 melt tank for recovery.	Hose fitting cracked on triplex pump while injecting methanol into well annulus, overfilling portable liner. Total volume spilled was 84 gallons of 50 % mehanol solution.
6/17/96	1996-IR-91095	Well Pad G	Crude Oil	42.00	A grease zerk check valve on the surface safety valve actuator leaked causing approximately 42 gallons of crude to spill into the well house.		The exempt clean up material was taken to Arco Pad 3 for disposal.	A grease zerk check valve on the surface safety valve actuator leaked causing approximately 42 gallons of crude to spill into the well house.
10/16/97	1997-IR-100850	Point MacIntyre	Crude Oil	42.00	"During fill clean out operation, pressured line blew back into open top tank causing crude to spill out top of tank."	"Shovels, absorbs and loader were used to pick up crude and contaminated gravel. - Contaminated snow was taken to Pad 3 East Pit on 10/18/97. Absorbs were taken to LPC Oily Waste."		"During fill clean out operation, pressured line blew back into open top tank causing crude to spill out top of tank."
3/15/97	1997-IR-98725	Flow Station 2	Seawater	42.00	Drain valve in line 16-1951 dirty water tank failed by disconnecting itself from the screw socket due to corrosion.	Used loader with scratcher to scrape up contaminated ice. - Contaminated ice was taken to Pad 3 East Pit on 3/16/97 to be held for future melting and injection.		Drain valve in line 16-1951 dirty water tank failed by disconnecting itself from the screw socket due to corrosion.
2/14/94	1994-IR-98413	Drill Site 12	Seawater	42.00	"The ball check on grease zerk failed, leaking seawater into the valve blanket and onto snow covered gravel pad."	A bobcat with a scratcher and loader were used to remove the contaminated material. Handshovels were used to clean up area under the pipe. - Material was taken to Pad 3 snowmelter pit on 2/22/94 for future injection at the WIF.		"The ball check on grease zerk failed, leaking seawater into the valve blanket and onto snow covered gravel pad."
3/9/94	1994-IR-98455	Drill Site 06	Seawater	42.00	Rubber seal on camlock connection on coiled tubing unit blew out causing material to spill.	A loader was used to remove the contaminated snow. Cleanup is 100% complete. - The contaminated snow was disposed of at the Pad 3 WIF on 3/11/94.		Rubber seal on camlock connection on coiled tubing unit blew out causing material to spill.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/26/93	1993-IR-97985	Drill Site 12	Crude Oil	42.00	Tank overflowed during test separator bridle blow down. Tank level indicator stuck.	Metis/Cleanup		Tank overflowed during test separator bridle blow down. Tank level indicator stuck.
11/5/99	1999-IR-94367	GC-3 Pad	Produced Water	42.00	The MEG heat trace temperature valves became restricted which blocked the MEG flow which in turn caused the Blowcase and Sump Pump discharge line from SK-515 and SK-484 to freeze. After repairing the heat trace one flange started leaking. A spill container was placed under the leak immediately but approximately 1.5 gallons of produced water was spilled on the pad. The line was blocked in and insulation removed and it was determined ice had pushed the gasket out of the bottom of the flange. The gasket and bolts were replaced and line put back into service.		Exempt material was taken to Pad 3 for disposal.	The gasket and bolts were replaced, and the line was put back in service.
6/4/92	1992-IR-97363	Drill Site 15	Crude Oil	42.00	Block valve on sump leaked causing material to overflow from vent line.	Metis/Cleanup		Block valve on sump leaked causing material to overflow from vent line.
5/27/97	1997-IR-98684	Drill Site 16	Crude Oil	42.00	Corrosion of 3? Demco ball valve on white elephant tank #94-630.	"Used loader scratcher, bucket and hand shovels to pick up contaminated gravel. Used sorbents to pick up liquids and clean tank. - Contaminated gravel was taken to the DS 16 temporary storage pit on 5/29/97 to be held for future remediation. Sorbents		Corrosion of 3? Demco ball valve on white elephant tank #94-630.
12/13/92	1992-IR-97850	J Pad	Methanol	42.00	Valve leak on a methanol tank caused the catch sump to overfill.	Metis/Cleanup		Valve leak on a methanol tank caused the catch sump to overfill.
2/5/90	1990-IR-96328	Drill Site 16	Methanol	42.00	"Pump valve was left partially open, overfilling belly tank."	YES -		"Pump valve was left partially open, overfilling belly tank."
10/12/92	1992-IR-97809	Drill Site 15	Crude Oil	42.00	Residual material in flowline spilled while cutting flowline	Metis/Cleanup		Residual material in flowline spilled while cutting flowline
6/2/90	1990-IR-97007	Drill Site 05	Methanol	42.00	Triplex pump vibrated into gear before completely connected.	YES -		Triplex pump vibrated into gear before completely connected.
3/21/90	1990-IR-97257	Drill Site 11	Seawater	42.00	Valve left open on manifold after B.J. Services rigged down.	YES -		Valve left open on manifold after B.J. Services rigged down.
5/10/92	1992-IR-97345	Drill Site 01	Seawater	42.00	Coiled tubing connection failed when pressure was applied.	Metis/Cleanup		Coiled tubing connection failed when pressure was applied.
6/22/93	1993-IR-97980	Drill Site 12	Seawater	42.00	Pressure gauge on the sand jet piping developed a leak.	Metis/Cleanup		Pressure gauge on the sand jet piping developed a leak.
3/7/90	1990-IR-97245	Drill Site 09	Seawater	42.00	Cuttings box was not placed under the conveyor trough	YES -		Cuttings box was not placed under the conveyor trough
2/28/91	1991-IR-97636	Hot Water Plant	MEG	42.00	Burped from heater vent due to ruptured supply line.	YES -		Burped from heater vent due to ruptured supply line.
3/16/92	1992-IR-97839	Seawater Injection Plant	Seawater	42.00	Overfilled tanker due to inaccurate operator gauges.	YES -		Overfilled tanker due to inaccurate operator gauges.
6/11/92	1992-IR-97707	Drill Site 02	Diesel	42.00	Valve on a pump was left open during wellwork.	Metis/Cleanup		Valve on a pump was left open during wellwork.
2/10/94	1994-IR-98409	Drill Site 14	Seawater	42.00	Seal rubber on connecting hard line gave away.	Metis/Cleanup		Seal rubber on connecting hard line gave away.
1/27/91	1991-IR-97574	Drill Site 02	Crude Oil	42.00	Inadvertently hit a pump tied into a hardline.	YES -		Inadvertently hit a pump tied into a hardline.
10/7/90	1990-IR-97130	Drill Site 11	Seawater	42.00	While offloading air blew material out vent.	YES -		While offloading air blew material out vent.
10/27/90	1990-IR-97153	Flow Station 2	Produced Water	42.00	Power failure caused pump seals to blow out.	YES -		Power failure caused pump seals to blow out.
3/30/91	1991-IR-97673	Drill Site 12	Seawater	42.00	Valve indicated closed when actually open.	YES -		Valve indicated closed when actually open.
6/24/91	1991-IR-97472	Drill Site 14	Crude Oil	42.00	Splashed out of hatch which popped opened.	YES -		Splashed out of hatch which popped opened.
9/26/92	1992-IR-97797	Seawater Injection Plant	Seawater	42.00	Overfilled tank during loading operation	Metis/Cleanup		Overfilled tank during loading operation
12/8/90	1990-IR-97200	Drill Site 12	Seawater	42.00	Cam-lock leaked while cleaning mud pits.	YES -		Cam-lock leaked while cleaning mud pits.
11/21/90	1990-IR-97183	Seawater Injection Plant	Seawater	42.00	Site glass failed resulting in overflow.	YES -		Site glass failed resulting in overflow.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/11/91	1991-IR-97455	Drill Site 04	Diesel	42.00	Overfilled tank during pressure test.	YES -		Overfilled tank during pressure test.
2/27/90	1990-IR-97233	Drill Site 02	Crude Oil	42.00	Temp flowline parted at the threads.	YES -		Temp flowline parted at the threads.
2/16/91	1991-IR-97625	Drill Site 01	Seawater	42.00	Flanged leaked at valve again.	YES -		Flanged leaked at valve again.
2/7/93	1993-IR-97413	Drill Site 11	Crude Oil	42.00	Valve on hardline left opened	Metis/Cleanup		Valve on hardline left opened
7/17/91	1991-IR-97496	Hot Water Plant	MEG	42.00	Overfilled glycol heater.	YES -		Overfilled glycol heater.
6/13/92	1992-IR-97709	Drill Site 16	Seawater	42.00	Hole in Frac tank.	Metis/Cleanup		Hole in Frac tank.
3/24/91	1991-IR-97664	Drill Site 12	Methanol	42.00	Valve left open.	YES -		Valve left open.
12/1/89	1989-IR-96863	PBOC, Not specified	Lube Oil	42.00	Sight gauge on slop oil tank was frozen causing the tank to overfill.	Not specified	Not specified	Not specified
11/13/89	1989-IR-96840	Drill Site 14, Not specified	Crude Oil	42.00	Vac. truck compressor vent discharge due to foaming of crude in tank	Not specified	Not specified	Not specified
11/7/89	1989-IR-96813	Drill Site 06, Not specified	Crude Oil	42.00	Sprayed from compressor vent cuased by high foaming.	Not specified	Not specified	Not specified
10/20/89	1989-IR-96795	Drill Site 16, Not specified	Crude Oil	42.00	A bleed-off needle was left open.	Not specified	Not specified	Not specified
5/4/89	1989-IR-96634	Pad 3, Not specified	Crude Oil	42.00	Faulty gasket on hose connection.	Not specified	Not specified	Not specified
3/8/87	1987-IR-100708	Not specified	Diesel	42.00	Blender tube overfl	Not specified	Not specified	Not specified
1/5/83	1983-IR-96106	Drill Site 02, Not specified	Diesel	42.00	Frozen needle valve	Not specified	Not specified	Not specified
1/18/89	1989-IR-96701	Drill Site 04, Not specified	Seawater	42.00	Faulty valve leaked	Not specified	Not specified	Not specified
8/1/87	1987-IR-96228	Drill Site 11, Not specified	Crude Oil	42.00	Overfilled vac truc	Not specified	Not specified	Not specified
12/22/81	1981-IR-96064	Drill Site 12, Not specified	Crude Oil	42.00	Grove valve not hoo	Not specified	Not specified	Not specified
8/22/83	1983-IR-96127	Drill Site 12, Not specified	Crude Oil	42.00	Retaining clamp bro	Not specified	Not specified	Not specified
6/5/87	1987-IR-96208	Drill Site 16, Not specified	Diesel	42.00	Blowdown valve open	Not specified	Not specified	Not specified
4/2/89	1989-IR-96941	J Pad, Not specified	Methanol	42.00	Camlock gasket leak	Not specified	Not specified	Not specified
1/1/83	1983-IR-96104	Drill Site 05, Not specified	Crude Oil	42.00	Removed hose early	Not specified	Not specified	Not specified
9/1/88	1988-IR-96494	Drill Site 06, Not specified	Crude Oil	42.00	Valve opened early	Not specified	Not specified	Not specified
11/20/88	1988-IR-96550	Drill Site 12, Not specified	Crude Oil	42.00	Sprayed from valve	Not specified	Not specified	Not specified
5/28/87	1987-IR-96189	Drill Site 01, Not specified	Crude Oil	42.00	Crude from tubing	Not specified	Not specified	Not specified
4/12/89	1989-IR-96618	Main Construction Camp (MCC), Not specified	Diesel	42.00	Belly tank leaked	Not specified	Not specified	Not specified
8/10/86	1986-IR-100688	Not specified	Crude Oil	42.00	Non-drained hose	Not specified	Not specified	Not specified
9/12/88	1988-IR-96504	Drill Site 04, Not specified	Crude Oil	42.00	Vented out hatch	Not specified	Not specified	Not specified
6/29/89	1989-IR-96699	Drill Site 13, Not specified	Crude Oil	42.00	Overfilled tank.	Not specified	Not specified	Not specified
4/9/88	1988-IR-96255	Flow Station 1, Not specified	Crude Oil	42.00	Valve not closed	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/29/86	1986-IR-100689	Not specified	Crude Oil	42.00	Vented gas leak	Not specified	Not specified	Not specified
12/10/87	1987-IR-96388	Drill Site 03, Not specified	Diesel	42.00	Overfilled tank	Not specified	Not specified	Not specified
1/15/89	1989-IR-96658	Drill Site 03, Not specified	Methanol	42.00	Overfilled tank	Not specified	Not specified	Not specified
10/29/88	1988-IR-96542	Drill Site 05, Not specified	Seawater	42.00	Overfilled tank	Not specified	Not specified	Not specified
10/27/88	1988-IR-96539	Drill Site 11, Not specified	Methanol	42.00	Overfilled tank	Not specified	Not specified	Not specified
1/12/89	1989-IR-96633	Drill Site 15, Not specified	Crude Oil	42.00	Overfilled tank	Not specified	Not specified	Not specified
6/19/88	1988-IR-96429	Drill Site 16, Not specified	Crude Oil	42.00	Overfilled tank	Not specified	Not specified	Not specified
2/11/88	1988-IR-100829	Lisburne Production Center, Not specified	Crude Oil	42.00	Overfilled tank	Not specified	Not specified	Not specified
12/1/85	1985-IR-95940	Drill Site 06, Not specified	Lube Oil	42.00	Fell off truck	Not specified	Not specified	Not specified
4/9/88	1988-IR-96254	Flowstation Common Lines, Not specified	Crude Oil	42.00	Corrosion leak	Not specified	Not specified	Not specified
6/16/80	1980-IR-96030	West Dock, Not specified	Lube Oil	42.00	Puntured drum	Not specified	Not specified	Not specified
2/12/89	1989-IR-96828	Drill Site 14, Not specified	Crude Oil	42.00	Valve leaked	Not specified	Not specified	Not specified
6/12/80	1980-IR-96026	Drill Site 01, Not specified	Crude Oil	42.00	Oil mist	Not specified	Not specified	Not specified
11/14/00	2000-IR-95576	Well Pad P	Methanol	42.00	Approximately 20 gallons of 60/40 Methanol/Water spilled onto the snow-covered gravel pad during coil tubing operations at well P-20. The well was being killed by pumping seawater down the annulus. To support this operation, several tanks were plumbed into a filter unit. The seawater was stored in a 400 barrel upright tank. A small methanol tanker, holding 60/40 Methanol/Water was also connected. When the crew switched from pumping methanol to pumping from the seawater tank, the valve on the methanol tanker was inadvertantly left open. This allowed seawater to gravity-drain into the tanker. About one barrel of fluid overflowed the tanker. Half of the liquid was caught in containment and about half spilled onto the pad. The spill was reported to the Environmental Department. The contaminated snow was cleaned up and the fluid reclaimed for beneficial reuse.	Material in containment was reused on the well job it was intended for. The snow and gravel were cleaned up with a loader and dump truck.	The contaminated snow was melted and used in freeze protection of wells on J-pad. The contaminated gravel was put in 7ea. 55 gal. drums and has been shipped off site to an approved Treatment Storage Diposal Facility.	
2/6/00	2000-IR-94616	Drill Site 17	Drilling Mud	42.00	On completion of window milling operations circulation was stopped and the BHA was pulled out of the hole. While laying down BHA and picking up the Drilling assembly the possum belly and shaker ditches were emptied to clean the system of any metal filings from the milling operation. The Spill champion on a regular walkaround noticed the spill to the one side of the cuttings tank. The auger discharge hose to the cuttings tank from the rig had frozen up causing the fluid to back up into the discharge end of the cuttings trough. The fluid had then found a weak point in the discharge hose and because of the prevailing wind had blown the leak outside of the cuttings tank secondary containment and onto the pad. 42 gallons of mud were discharged onto the pad which was contained and the leak stopped. The magnitude of the spill was as a result of the leak being in a "blind spot" away from normal traffic between the rig substructure and the cuttings tank. It should also be noted that the cuttings tank has its own inbuilt secondary containment and is not berned with herculite. It should also be noted that this is a repeat incident with the same piece of equipment from one year ago when the cuttings tank was associated with Nabors 7es. (LCIR # 1998-LCIR-4654).	Material was picked up with hand tools.	The recovered drilling mud was taken to Drill Site 4 Grind & Inject.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/9/00	2000-IR-94533	Well Pad X	Seawater	42.00	While supporting squeeze unit operations at well X-24, the operation required draining of surface lines. When normal operations were restored, seawater was to be pumped from tiger tanks, through a portable pump and then through the squeeze manifold trailer. During the rig up, one of the hoses did not get connected and was left open-ended. When the pump was turned on, approximately 1 barrel of seawater flowed onto the snow-covered pad. The operations was shut down and BP Environmental was notified. During the investigation, the following deficiencies were identified: 1) After the lines were blown down, the employee disconnected the supply hose at the squeeze unit connection. This is not proper procedure for this operation. 2) When the unit was again ready to receive fluids, the discharge end of the hose was not hooked up to the squeeze unit. The employee did not properly check the discharge end of the hose to ensure it was hooked up. 3) No procedure is in place for evaluation of continuing competence of crew members. 4) Communications between the groundman and the squeeze unit operator was less than adequate. 5) When the hose was initially disconnected from the unit, it was placed in such a way that it may have appeared to have been hooked up when viewed from a distance. 6) There is no way for the squeeze unit operator to monitor hose connections from inside the unit. Responsibility rests with the ground man and the spill prevention monitor. The following information relates to fatigue management: This employee was on his normal shift, was on day number 5 of a 14-day hitch, and had not worked any excess time within the last 2 days.	Affected snow was scraped up with a loader and hand tools.	Non-hazardous material was taken to Pad 3.	
1/8/06	2006-IR-1684557	Drill Site 04, Just a couple feet to the right side of the wellhouse for DS 4-10. , FS2/COTU	Hydraulic Fluid	41.00	During rigdown, a hydraulic hose (return line) disconnected at the hose clamp. The crew saw it right away and responded immediately to disengage the PTO. Yet the system pushed out 30 gallons (25 on the pad and 5 into containment) before the system was shut down. Cause of hose connection failure is under investigation. Schlumberger Safety and Management, BP Wells Group, and SRT were notified within minutes of the spill and representatives of each group arrived to participate.	Sorbents were used to recover all the standing fluids. Contaminated snow and gravel was removed with a loader and scratcher and put into a dump box for disposal. A bobcat trimmer was used to recover some spots where the oil was embedded in the frozen gravel.	Contaminated material was taken to Pad-3 for disposal	
9/28/02	2002-IR-324697	Well Pad H	Diesel	40.00	Approximately 1 barrel of diesel flowed into the well cellar at H-25 while a crew was performing an Mechanical Integrity Test on the outer annulus. The precise location of the leak will have to be determined through further testing of the OA.	Vac truck was used to remove standing liquids. Pump and hoses were used to flush gravel within the cellar to remove diesel from gravel. Material then was removed using vac truck.	The exempt material was taken to Drill site 4 Grind and inject.	The well has been checked for the last few days and no other fluids have come out from around the conductor area. The well has been shut in for future evaluation. The initial report was sent out on 9-28-02.
7/7/01	2001-IR-53130	Drill Site 01, DS1 well 26	Produced Water	40.00	Line was shut-in for a proration & pressured up to 2200#. There was a leak on the line that occured halfway between the well & the manifold building. Well was shut-in & blinded at both ends.	Recovered contaminated gravel with hand tools and heavy equipment. Lightly misted tundra was treated with insitu burning via hand-held propane wands.	Gravel taken to G&I Fluids taken to Pad 3 Absorbents and grass collected disposed of in oil waste dumpster.	Clean-up complete at this time. Vegetative regrowth will continue to be monitored unti 2003 as agreed to in the Monitoring plan.
6/10/01	2001-IR-101560	Well Pad Y	Drilling Mud	40.00	While in the drilling mode, pumping @ 3900 psi, a 3" shock hose on the discharge side of the mud pump developed a small hole & leaked approximately (1) bbl of drilling fluid, (water based Flo Pro), onto secondary containment, with approximately (10) gallons going onto the pad. Operation was immediately suspended & cleanup was carried out. Environmental, (ACS), was notified as well as HSE, and the on duty Drilling Superintendent.	Shop vac and sorbents were used to clean affected area. Gravel was shoveled into a 5 gallon bucket.	Only a small portion of the material ended up on the gravel pad and that material will be taken to Pad 3.	The drilling crew responded on site. This fulfills spill reporting requirement under 18 ACC75.300
4/24/02	2002-IR-210161	Well Pad R, R-27	Crude Oil	40.00	Stem packing failure caused 20 gallons of crude to spill on snow and gravel pad at the back of wellhouse R-27. Valve has been in service for many years and had a large insulation box surrounding the valve that prevented a spray from spreading over a large area. This well was flowing into the R-Pad HP system and had approximately 1400 psi flowing tubing pressure.	The contaminated snow and gravel was removed with heavy equipment and hand tools. The insulation has been removed and will be decontaminated in a wash bay.	Contaminated snow has been taken to T-Pad and Pad-3. Rags and absorbent have been taken to an approved oily waste dumpster.	The initial report had an error and has been corrected: There was no tundra effected
12/7/02	2002-IR-386390	Pad 10, Pad 10 Loading area	Methanol	40.00	Employee was loading methanol at the methanol loading dock. Employee was watching site glass as methanol was loading on tank. When the site glass reached the half full mark employee noticed it immediately jumped to the full mark. Employee immediately went to the shutoff valve and shut the methanol in. Employee immediately called Dispatch and notifications were made. Area was coned off and waited for SRT.	Bob cat, Loader,scratcher, Hand tools, and drums were used to remove contaminated material from site.	All fluids caught in secondery containment were vaced up and will be used for freeze protection. Contaninated snow, and ice was melted and benefially reused at DS #12 for freeze protection.	Notifications were made to all agencies. Initially reported on 12/7/02.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/11/05	2005-IR-1278336	Niakuk Pad, Niakuk pad , GPMA	Diesel	40.00	A portable hot air heater was parked along side Nabors 9-ES truck shop, fueler came by to top off fuel tank, while filling tank he discovered a leak in fuel line coming from the tank, spilling approximetly 2 gal diesel on the ground, spill was reported and cleaned up by ACS personel.	Contaminated snow was removed with a bobcat and hand tools. The contaminated gravel was removed with a bobcat and trimmer.	The contaminated snow will be melted down and sent to GC-2 for recycle. The contaminated gravel was sent to Pad-3 for disposal.	A verble notification was given on 3/12/05
10/20/05	2005-IR-1586403	Central Gas Facility, CGF - North Construction Area - Under Reboiler , CGF/CCP	Propylene Glycol	40.00	The crew was scheduled to hydro-test the newly installed reboilers and reboiler piping on the CGF GLXR project. As they attempted to fill the vessel with the proplyene glycol solution for test they discovered that two flanges were not properly torque and allowed a solution discharge into the containment below the flanges and slashing out onto the gravel dad below the reboilers.	The glycol contained in the secondary containment was recoverd back into the vac truck. The contaminated gravel was recovered using a bobcat trimmer and bucket. The material was placed in a dump box for disposal.	Contaminated gravel was taken to Pad-3 for diposal. All sobent pads were disposed as oily waste. 20 Gallons was recovered and reused in the hydrotest.	
1/19/04	2004-IR-749623	L Pad (Steamer Pad), EOA, L-pad(Steamer Pad), Non Process Area	Diesel	40.00	Sometime between 0400 and 0600 on the19th the plastic site gauge came loose from the top valve compression fitting on the fuel tank for the generator. It bent over and allowed diesel to siphon out of the tank into and overfilling a pail it drained into. Excess amount of diesel then migrated to the floor and seeped onto the ground under the steam trailer through a partition wall seam on the floor of the unit. Also noted was the bottom ¼ turn valve did not have the ball check in place. The diesel tank for the generator has a capacity of +/- 168 Gals, and was approximately 1/3 full when the unit was transported on 1-17-04 from Bldg. U-1 to L-Pad. The Generator was shut down and the unit connected to shore power. The steam unit was down for repairs and was being heated through an elephant trunk and Tioga heater. Temperature in the unit this am when the operator checked the unit before his shift started, and discovered the diesel leak was +/- 80deg. F. The unit is checked on a regular basis by the night shift for Wells Support and had been looked at the last time on or about 0400 on 1-19-04, when the fueler was noticed on the pad refueling the Tioga heater. According to SRT no fuel was added to either of the tanks in the trailer. SRT responded and cleaned up surface material and will come later with a chipper to remove some gravel.	Contaminated snow was recovered with a loader and scratcher. Contaminated gravel is being recovered with a bobcat trimmer and bucket.	The contaminated snow will be melted down and sent in for recycle. The contaminated gravel will go to pad 3 for disposal.	
5/23/02	2002-IR-228656	Well Pad J, J-11	Seawater	40.00	While fluid packing coil tubing with 2% KCL for pressure test, crew member noticed fluid coming from reel house. Pump was shut down and tried to locate where fluid was coming from, leak appeared to be six or seven wraps on the reel. Reel sump had overflowed and fluid ran to secondary containment and onto the gravel pad. Calls were promptly made to Pad Operator, ACS, Safety and FSM to inform them of the incident. Coil tubing was blown down with N2 and Unit # 3 was taken back to the Dowell yard to swap reels. ACS to scrape gravel pad after unit left location.	All of the liquids were placed back into the storage tank on site to be reused. The contaminated gravel was removed using loader, dump truck and hand tools.	Fluids were placed back in onsite storage tank for reuse. Gravel was taken to T-pad storage pit.	
11/7/03	2003-IR-672029	BOC, BOC	Sewage	40.00	Resident walking past building noticed a leak coming from under the underside of the BOC that was causing a build up of ice. Reported the leak to maintenance and the area was inspected. Maintenace found a copper line to ABS no-hub fitting that was loose with water leaking from it. The line drained showers, sinks and toilets. Clamps were properly tightened on fitting and leak immediately stopped.	The contaminated snow and gravel was removed with a bobcat, hand tools and a dump truck.	Contaminated snow/ice/gravel was taken to T-Pad Storage Pit.	
12/18/01	2001-IR-146394	Well Pad V, V-pad	Hydraulic Fluid	40.00	hydraulic pump ruptured spill about 40 gallons of fluid	A loader was used to clean affected snow from the pad.	The material was taken to Pad 3 disposal facility.	
7/11/06	2006-IR-1904022	Drill Site 04, DS4-31 On the off drillers side by substructure., FS2/COTU	Drilling Mud	40.00	Rig was filling choke line in preperation for BOPE test. Valve was left open and brine from pits was pumped out open valve. Motorman performing walk around noticed leak and shut down operation. There were 20 gallons of NaCl brine released in containment and 20 gallons released outside containment. Fluid in containment was recovered and recycled into pit system. The fluid and contaminated gravel were recovered with a SuperSucker and disposed of at G&I as per Jack at SRT.	Used rig trash pump to suck up fluid from containment and pump into pits over shaker. Use SuperSucker to suck up fluid and contamimated gravel and deliver to G&I.	Fluid recovered. Gravel to G&I as class II.	
8/20/95	1995-IR-86833	BOC	Drilling Mud	40.00	A Peak 250 bbl vacuum tanker was being prepared to offload drilling mud to the injection skid. The driver connected a 3" hose to the injection skid transfer pump from the tankerand began to build-up vacuum pressure to offload. As this was being done, the injection skid operator was preparing his plant to accept the fluid from the tanker. The operator signaled to the driver to open the tanker's valve and begin the transfer of fluids. Shortly after the transfer began the tanker blew its pressure relief valve which caused approx. 1 bbl of drilling mud to spill on to the pad. The operator shut the procedure down and notified his supervisor of the incident. The supervisor contacted the Waste Management Supervisor and cleanup operations were implemented. The WMS notified the BPX Environmental Dept. at 0700. They arrived on the scene at approx. 0730 to inspect the cleanup and file report. Note: No environmental damage to water or tundra occurred. The skid operator did fill out a "Fluid Transfer Guideline" permit.		The exempt clean up materials were injected through the Ball Mill	A vac truck was preparing to off load into the Injection Skid when the Injection Skid Operator inadvertently pumped fluids back onto the vac truck. This process caused the vac truck to overfill and blow the pop off valve, discharging drilling mud onto th

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/11/97	1997-IR-89458	Well Pad Z	Produced Water	40.00	Peak was called to haul a tiger tank that had been used in support of the GC-2 shut down work from Z pad to Price Pad. While making the sharp turn onto the access road, a valve on the tiger tank hit the tail roller of the truck. The pipe nipple was broken and the valve was knocked off the tank. This resulted in a 40 gallon produced water spill that was contained on the roadway. BPX Environmental department was called and the spill was quickly cleaned up. The contaminated gravel has been stored for remediation. Investigation revealed that the tank was still loaded with approximately 175 barrels of fluid and should not have been moved until emptied. This spill will be discussed at Peak and APC safety meetings. Peak will review their cross-training requirements with specific emphasis on bed trucks and tank hauling. The field crew should have been responsible to ensure that the tank was empty before it was picked up.		Class II material was taken to CC2 to be injected.	While making the sharp turn onto the access road, a valve on the tiger tank hit the tail roller of the truck. The pipe nipple was broken and the valve was knocked off the tank. This resulted in a 40 gallons of produced water spill that was contained on
8/21/96	1996-IR-89548	Well Pad H	Crude Oil	40.00	Pump truck operator was rigging up in preparation for a chemical injection job at H-Pad. The pump truck operator rigged a tiger tank to pump truck and opened tank valve in order to fluid pack piping. Employee then proceded to rig up the remaining piping. During this process the crew noticed that crude oil was coming from the tank vent of the pump truck. The pump truck operator immediately shut in tiger tank valve and notified Chemical Foreman of the incident. The initial investigation revealed that the pump truck operator had left the valve to the pump truck crude oil tank in the open position and left the charge pump running. This incident resulted in approximately 45 gallons of crude oil being spilled on the pad. The Environmental Department and APC Safety were immediately notified and began initial accessment of the incident. The pump truck operator, that was involved in this incident, is one of our most experienced operators. It should be noted that there has not been a human error spill on this unit in almost two years. This spill resulted solely from operator error. Existing procedures, equipment, policies, and training are deemed to be adequate for this work.		Exempt contaminated gravel was taken to Pad 3.	Operator was about to pump dead crude from Tiger Tank #Chem 2 with pump trailer 90-863 to one of the wells at the manifold bulding. Operator thought that the holding tank valve in the pump trailer was closed. He opened the isolation valve on the Tiger T
9/12/93	1993-IR-89041	Well Pad Y	Drilling Mud	40.00	Drilling mud was flowing down the cutting trough and splashed through a gap in the splash protector causing the mud to spray out of the rig, through a door and onto the ground. Spilled approx. 40 gals of drilling mud. This contaminated material was picked up with shovels and a guzzler. The truck was then sent to the ball mill for injection of fluids. (No environmental damage).		The contaminated material was taken to the CC-2 Ball Mill.	Drilling mud was coming down the cuttings trough and splashed through a gap in the splash protector, causing the mud to spray out of the rig onto the ground.
6/7/93	1993-IR-88777	Well Pad X	Crude Oil	40.00	Prior to production, X-19 S-Riser was pressure tested to 1,000. A leak occurred at sample point in X-19 Wellhouse. To stop leak, operators depressured to slop tank. MEOH and crude from displaced flowline in the slop tank vented outside module. Fueler saw spill and reported to MOC. Further investigation identified an ice plug in a line which broke loose and caused the slop tank to fill at too high a rate. Testing of S-Riser only was not possible as lateral valve would not hold pressure. 100 gallons Methanol/Water, 60/40 40 gallons Crude		Crude oil and snow melt were reinjected into the process stream. Contaminated gravel was taken to Arco Pad 3.	Riser line was being depressurized to prevent gas leak. An ice plug moved unexpectedly, causing the material in the line to vent to the outside.
3/14/98	1998-IR-90712	GC-3 Pad	Produced Water	40.00	Seal failure in an injection pump caused approximately 40 gallons of produced water to exit the module and spill on the pad under Skid 402 at GC-3.		Frozen material was transported to ARCO Pad 3 for RCRA exempt disposal.	Seal failure in an injection pump caused approximately 40 gallons of produced water to exit the module and spill on the pad under Skid 402 at GC-3.
6/26/94	1994-IR-86293	Drill Site 05	Seawater	40.00	Immediately after start up of circulation a leak was observed in the flowline connection. The leak was located at the air boot connection at the shaker's "possum belly". They replaced the boot and checked for leaks. At that time there were no apparent leaks. About 12 hrs later the boot failed again causing a loss of approx. 1bbl of oil contaminated (5%) sea water with some fluid spilling from the rig onto the pad. The spill contigency plan was put into action and all accessible fluid was cleaned up. A spill review board was held to determine the causes and establish remedial actions.		Exempt used sorbants placed in oily waste dumpster. Exempt Gravel taken to Pad 3 in dump truck.	Airboot seal on the flowline failed allowing seawater & diesel mix to spill into pits and overflow onto the pad.
2/3/93	1993-IR-86675	GC-1 Pad	Seawater	40.00	A bad seal in the flanged valve on the seawater line from Flow 1 to GC-3 allowed fluids to escape. Hand tools were used to remove the snow, ice and seawater. The contaminated material was taken to the T-Pad lined pit for disposal. The valve flange was tightened to stop the leak and a surface liner was placed under the valve.		Contaminated snow and ice was taken to the T-pad lined pit for disposal.	A bad seal in the flanged valve on the seawater line from flow 1 to GC-3 allowed fluids to escape.
11/3/93	1993-IR-88973	Well Pad S	Seawater	40.00	S-Pad Skid 57, the Pigging Pit Vent Line was found to be leaking Seawater on snow, several places on line had ice build-up around line and hanging down from line. Investigation revealed line damage due to Seawater freezing in the line. Leaking valves in Skid 57 and the failure of the Heat Trace System were the cause to this damage.		Snow and ice placed into pigging pit for spring disposal by injection back down well.	Frozen pigging line burst due to leaking valves and failure of heat trace system.
5/27/94	1994-IR-98194	MCC Fuel Dock	Diesel	40.00	Driver was unaware of diesel level in tank and overfilled the tanker.	Containment pit was built under leak to contain material while thawing continues. An ice mound approximately 3'x3'x3' was chipped out and placed into dike. -		Driver was unaware of diesel level in tank and overfilled the tanker.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/16/90	1990-IR-97012	Drill Site 05	Seawater	40.00	Ice blocked valve open when hose was unhooked from the upright tank.	YES -		Ice blocked valve open when hose was unhooked from the upright tank.
4/11/95	1995-IR-98481	Drill Site 05	Seawater	40.00	*Tank was accidentally overfilled during fluid transfer.	"Contaminated snow and ice will be trimmed and picked up. Cleanup will begin when equipment leaves site, afternoon of 4/11/5. - Material will be hauled to Pad 3 for disposal."		*Tank was accidentally overfilled during fluid transfer.
2/14/00	2000-IR-95975	PBU Equipment Fleet Shop	Diesel	40.00	"While fueling equipment, hose ruptured on fuel truck."	The spill was cleaned up inmmediately by the equipment services crew. A loader was used to pick up the contaminated snow.	The contaminated snow & ice was place into an SRT dump box and will be reused for freeze protection. The small amount of gravel (2 shovel fulls) will be taken to the pad 3 west pit for future remediation or disposal.	"While fueling equipment, hose ruptured on fuel truck."
5/1/93	1993-IR-97909	Drill Site 09	Seawater	40.00	Hatch on bottom side of tanker leaked around gasket.	Metis/Cleanup		Hatch on bottom side of tanker leaked around gasket.
9/19/93	1993-IR-98039	Pad 3	Crude Oil	40.00	High level alarm failed allowing tank to overfill.	A front end loader removed the contaminated gravel. Clean up is considered to be 100%. - The contaminated material was taken to Pad 3 West temporary pit on 9/20/93 for future remediatio .		High level alarm failed allowing tank to overfill.
3/21/92	1992-IR-97875	Drill Site 12	Seawater	40.00	Material leaked from a fitting on a grove valve.	YES -		Material leaked from a fitting on a grove valve.
11/4/90	1990-IR-97161	Flow Station 1	Crude Oil	40.00	A tanker was overfilled while loading.	YES -		A tanker was overfilled while loading.
6/28/92	1992-IR-97716	Drill Site 12	Seawater	40.00	SWI line faliure while dewatering.	Metis/Cleanup		SWI line faliure while dewatering.
3/20/91	1991-IR-97660	Drill Site 16	Crude Oil	40.00	Valve failed overfilling sump.	YES -		Valve failed overfilling sump.
3/17/91	1991-IR-97652	Drill Site 16	Crude Oil	40.00	Sump valve leaked.	YES -		Sump valve leaked.
3/18/91	1991-IR-97656	Drill Site 13	Methanol	40.00	Left valve open.	YES -		Left valve open.
7/20/89	1989-IR-96728	Drill Site 07, Not specified	Methanol	40.00	Material leaked from inadvertently partially opened valve.	Not specified	Not specified	Not specified
6/4/82	1982-IR-96079	COTU Facility, Not specified	Diesel	40.00	Shut-off nozzle fai	Not specified	Not specified	Not specified
8/11/83	1983-IR-96123	Drill Site 13, Not specified	Crude Oil	40.00	Opened valve to soo	Not specified	Not specified	Not specified
6/16/81	1981-IR-96049	Flow Station 1, Not specified	Crude Oil	40.00	Heat tracing failed	Not specified	Not specified	Not specified
1/3/83	1983-IR-96105	Drill Site 05, Not specified	Crude Oil	40.00	Removed Hose wrong	Not specified	Not specified	Not specified
10/4/88	1988-IR-96521	Drill Site 15, Not specified	MEG	40.00	Hose disconnection	Not specified	Not specified	Not specified
4/2/88	1988-IR-100833	Not specified	Diesel	40.00	Faulty valve leak	Not specified	Not specified	Not specified
4/8/88	1988-IR-96281	Drill Site 03, Not specified	Crude Oil	40.00	Faulty seal leak	Not specified	Not specified	Not specified
12/22/88	1988-IR-100733	Not specified	Seawater	40.00	Overfilled tank	Not specified	Not specified	Not specified
10/25/85	1985-IR-95934	Central Compressor Plant, Not specified	Lube Oil	40.00	Dump valve open	Not specified	Not specified	Not specified
9/18/88	1988-IR-96512	Drill Site 03, Not specified	Crude Oil	40.00	Corrosion leak	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/15/87	1987-IR-100699	Lisburne Production Center, Not specified	Diesel	40.00	Packing leaked	Not specified	Not specified	Not specified
10/25/87	1987-IR-96377	Central Compressor Plant, Not specified	Lube Oil	40.00	Valve opened	Not specified	Not specified	Not specified
12/17/85	1985-IR-100680	Not specified	Crude Oil	40.00	Pipe leak	Not specified	Not specified	Not specified
4/6/95	1995-IR-87158	Well Pad N	Crude Oil	40.00	A chemical operator making his rounds at N pad noticed water/oil trickling down the side of module 56. He notified the pad operator by radio and they relayed information back and forth about where the leak appeared to be, how bad it was leaking etc. The pad operator notified the PCC to shut-in the pad, notified the field supervisor, and he left GC2 for N pad. Other pad operators and the field supervisor converged on N pad to shut in wells and assist. The PCC was instructed by the field supervisor to depressure the LDF to the GC slugcatcher to speed up depressuring. The wells were tripped by the PCC and the leak was determined to be on header 44 between modules 54 and 56, so the isolation valves on each side of the leak were closed. The wells were all winged in. Spill containment measures were taken to collect oil/water running down the side of the building and onto the ground. The final spill estimation was 40 gal water and 40 gal. oil. The scaffolding under the leak area was cleaned up and insulators removed more insulation for inspectors to examine the leak area. The inspectors also examined other suspect areas. A meeting was scheduled for 4:30 pm to assess the information and formulate a repair plan.		The contaminated snow and gravel will be taken to Arco Pad 3.	
4/6/95	1995-IR-87158	Well Pad N	Produced Water	40.00	A chemical operator making his rounds at N pad noticed water/oil trickling down the side of module 56. He notified the pad operator by radio and they relayed information back and forth about where the leak appeared to be, how bad it was leaking etc. The pad operator notified the PCC to shut-in the pad, notified the field supervisor, and he left GC2 for N pad. Other pad operators and the field supervisor converged on N pad to shut in wells and assist. The PCC was instructed by the field supervisor to depressure the LDF to the GC slugcatcher to speed up depressuring. The wells were tripped by the PCC and the leak was determined to be on header 44 between modules 54 and 56, so the isolation valves on each side of the leak were closed. The wells were all winged in. Spill containment measures were taken to collect oil/water running down the side of the building and onto the ground. The final spill estimation was 40 gal water and 40 gal. oil. The scaffolding under the leak area was cleaned up and insulators removed more insulation for inspectors to examine the leak area. The inspectors also examined other suspect areas. A meeting was scheduled for 4:30 pm to assess the information and formulate a repair plan.		The contaminated snow and gravel will be taken to Arco Pad 3.	
12/16/95	1995-IR-91255	Well Pad R	Drilling Mud	40.00	When transferring drilling fluid from the MI van to the storage tank, the van operator failed to properly position the valves. Mud was pumped to the solids bin, and it over flowed 1 bbl of mud. The van operator believed that the pump was not operating correctly, since the man watching the storage tank reported no flow.		The material was re-used for its intended purpose.	
1/14/00	2000-IR-94546	Well Pad C	Seawater	40.00	While supporting cementing operations at well C-18, the crew was using a pump and fire hose to wash cement returns out of an open top tank. The operation took a total of 30 to 45 minutes. Toward the end of the process, fluid was observed spraying from the suction side of the pump. The operation was shut down. Approximately one barrel of seawater was spilled into a containment pit (10 gallons) and onto the snow-covered pad (32 gallons). On examination of the 3" camloc fitting, it appears that one ear of the fitting came loose. The ears had originally been secured using the standard mud-box clip. During the final stages of the rinse process, the nozzle of the fire hose had been opened and closed several times. This resulted in the pump being dead-headed and causing the hoses to jump. Sometime during this final stage, the clip was jarred loose. BP Environmental was notified and the area will be cleaned up as soon as equipment is removed from the area. The crew performing this operation is well experienced, was on their normal shift and had not worked any excess overtime in the last two days	The frozen ice and snow was scratched and collected using a loader and hand tools.	The material was taken to ARCO pad 3.	
5/6/04	2004-IR-894523	C Pad, Tank 1905, C-Pad, Non Process Area	Fresh Water	39.50	During a waterwash with hot water, the condensate, a mixture of water and a small amount of corrosion inhibitor, was released from the manway on top of the tank. It went unnoticed due partly to phase 1 weather conditions, consisting of 30+ mph and blowing snow. The dirty water eventually left a discoloration on the snow in the containment area, which was noticed by the C-pad operator.	Contaminated snow was recovered with hand tools and a bobcat. Snow melt water was removed with a vac truck.	Material was taken to T-Pad for disposal. Snow melt water from the containment was taken to Pad-3.	Immediate notifications were made. A spill review was conducted on 5/7/04 with Russ Cary, Rick Walton, John Tryon, Mark Cabeen, Jim Short, Chuck Wheat, and Victor Richart.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/30/88	1988-IR-96450	Central Compressor Plant, Not specified	Lube Oil	39.00	Leak through floor	Not specified	Not specified	Not specified
6/16/96	1996-IR-91383	Well Pad B	Drilling Mud	38.00	The derrickman had cleaned the suction pot on the mud pump. During this procedure he had opened a valve to drain the pot for screen access. After cleaning the screen and installing the lid on the suction pot he failed to close the drain valve. When the driller started the mud pump the charge pump filled the suction pot and mud ran out of the drain line. After filling the sump approximately 8 gallons of mud ran out of the pump room onto the pad. The spill was cleaned up with a loader and hand tools and placed into a slop tank. The contaminated material will be taken to the CC2A ball mill for injection. There was no tundra or water affected.		The exempt material was taken to CC2A Ball Mill for injection.	A valve was left open on the transfer pump during pumping operations.
2/3/90	1990-IR-97197	Drill Site 07	Diesel	38.00	Coiled Tubing hose became wrapped around well valve and broke.	YES -		Coiled Tubing hose became wrapped around well valve and broke.
11/18/96	1996-IR-89702	Well Pad W	Crude Oil	37.50	Trico employees were performing an acid flowback of well #35 at W-Pad. The Trico crew was transferring fluids to a 500 barrel tiger tank when the tank was overflowed. The Trico operator was monitoring the volume of fluids being transferred by calculating the average barrels of fluids per hour and was also strapping the tank each hour. The Trico unit is also equipped with a direct reading display from a turbine meter to monitor the volume of fluids being transferred to the tiger tank. The Trico opertor's calculations were not correct; however, the display from the turbine meter was showing 505 barrels of fluid had been flowed into the tiger tank. The crew was about to strap the tank level again when they noticed that the tank was overflowing. This spill was the result of human error.		The exempt clean-up material was taken to Pad 3.	Trico was performing an acid flowback job on W-35 when they overfilled the Tiger tank they were using, spilling approximately 250 gallons of produced water with 15% crude content onto the pad.
3/10/04	2004-IR-830194	Well Pad Z, WOA Z-Pad, GC2/SAT	Hydraulic Fluid	37.00	At 8:00AM on March 10, 2004, while working under normal operations the Grove 50 ton hydraulic crane # 14075 had a hydraulic hose rupture. The crane was still in a warm-up mode and no lifts were being made at the time of the leak. All of the hydraulic oil was caught in the secondary containment except 2 gallons. The containment size was a 4'X4' and approximatly 35 gallons recovered. The crane has been taken out of operation and will be sent to the maintenance shop for repairs. Once again it pays off for us being pro-active in the use of the secondary containments	Shovels were used removed contaminated snow. A vac truck was used to remove standing liquids in the containment.	The snow was taken to T-pad storage facility, the standing liquids were taken to Pad 3	
4/28/01	2001-IR-101426	Well Pad N	Crude Oil	35.00	while attempting to move a class 2 bleed trailer the employee noticed flid was leaking out of the secondary containment near the back of the trailer. It is unknown if the trailer was overfilled. It is unclear who is responsible and exactly what material was spilled.It appears likely , snow melt mixed with well fluids. collected in the secondary liner , sloshing out when the trailer was moved. The spill was cleaned up , operations staff and well work folks notifed to inusure lined on tank is empty prior to moving tank in the future.	The fluid in the trailer containment was removed with a hand pump and placed back in the tank. The material on the ground will be cleaned up with a loader, dump truck and hand tools.	Tank fluids and snow and gravel will all be taken to Pad-3 disposal Facility for Class II disposal	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300. Spill was called in to AK State Trooper (ADEC After Hours Spill Line) @ 8:45 p.m.
12/18/06	2006-IR-2091042	Drill Site 04, Surfcote Pad, FS2/COTU	Produced Water	35.00	While employee was working on well number 2 on Surfcote Pad he discovered a leak on the splitter manifold going to well 3. Employee called the board operator to report the situation. The G&I board operator shut down the injection line. Operator called security, SRT, and the proper persons in the reporting Matrix. Supervisor, BP Team lead, SRT team and Vac truck responded within 25 minutes of the call. SRT took control of the leak situation and Supervisor called BP piping engineering and CIC group to access damage.	The contaminated area inside the unlined containment was flushed with hot water. The 2' X 5' contaminated area outside the containment was recovered with a loader and dump box.	The flush fluids were taken to Pad-3 for disposal and the contaminated gravel was taken to G&I for diposal.	NOTE: This is the final report for this spill. Samples were taken for conductivity, and came back below the minimum clean up standards.
9/4/05	2005-IR-1531232	Well Pad J, Well house J-27, GC2/SAT	Crude Oil	35.00	J- Pad was shutdown on September 3rd at 8:10 AM for scheduled maintenance. J-27 had the master valve, surface safety valve, and wing valve closed for maintenance. The grease crew serviced these valves on this well after it was shut-in. The tree cap bleed was open as per safeout procedure. The operator bled the tree cap until it stopped venting. On September 4th at approximately 2:00 PM coil tubing unit #9 was rigging up on J-17 that is adjacent to J-27. The coil crew heard a ¿pop¿ come from J-27 and they notified the Well Pad Operator who was on the other side of the Well Pad. When the operator got to the Well it had stopped bleeding. It appeared that the needle valve on the tree cap hydrated off during bleeding that did not allow the Well to be completely bled off.	Standing liquids were pumped out and a super sucker was used to remove contaminated gravel.	The material was taken to DS-4 Grind and inject facility.	Well will be monitored daily for further signs of pressure built up.
8/17/05	2005-IR-1507879	Well Pad L, L-202, GC2/SAT	Propylene Glycol	35.00	Well Test Unit 1 was initiating a start-up of the adjacent line heater. The heated fluids in the line heater expanded resulting in fluids being released out of the vent on to the well pad.	Free standing liquids were soaked up with absorbent pads. The contaminated gravel on the pad was removed using a loader, dump truck and hand tools.	The contaminated absorbent pads were taken to an approved NSB oily waste dumpster. The contaminated gravel was taken to Pad-3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/5/06	2006-IR-1966932	Santa Fe Pad, Santa Fe pad., Non Process Area	Diesel	35.00	The diesel motor, used for powering the hydrolic pumps, had formed a crack that discharged pressurized diesel rapidly. The diesel ran onto the deck and onto the gravel pad.	A loader was used to remove contaminated gravel. Another truck was used to remove standing liquids in containment area of Pony motor compartment.	The gravel was taken to Pad 3 disposal facility. Sorbents used were taken to an approved oily waste dumpster.	
1/8/04	2004-IR-738743	Bulk Chemical Building, Bulk Chemical Loading Facility, Non Process Area	Corrosion Inhibitor	35.00	Alaska West was ready to start transferring EC-9041A from their IMO into the Bulk Tank via the tractor-mounted pump, at the MOWF. The pump was started and immediately the Kam-lok fitting on the tractor broke apart, allowing the three inch hose to be blown free of the fitting. The Chemical Tech quickly shut down the pump; the driver went to shut the DOT valve and the Chemical Tech shut in the Bulk tank valve. Environmental, company Supervisor and the HSE Advisor were notified immediately. After the fitting was changed, they resumed pumping the EC-9041A. A leak was noticed dripping into containment under the pump, they monitored the situation during the process of unloading the IMO. Environmental was again notified.	The fluids captured in containment were recovered with a hand pump and will be recycled/reused. The contaminated snow has been recovered using shovels.	Contaminated snow will taken to the BP Hazardous Waste Process Facility.	
4/8/92	1992-IR-97887	MCC Fuel Dock	Diesel	35.00	Operator started to fill the wrong storage tank which was already full causing it to overflow out of vent.	Metis/Cleanup		Operator started to fill the wrong storage tank which was already full causing it to overflow out of vent.
4/22/92	1992-IR-97693	Flow Station 2	Diesel	35.00	Split hose on fuel truck allowed material to leak onto the pad.	Metis/Cleanup		Split hose on fuel truck allowed material to leak onto the pad.
9/25/93	1993-IR-98048	Drill Site 14	Diesel	35.00	Pump box on fuel truck broke as truck was backing up.	"Handshovels, a supersucker and backhoe were used to remove the contaminated gravel. Clean-up is considered to be 100% complete. - Contaminated gravel was taken to Pad 3 temporary holding pit on 9/27, 10/1/93 for future remediation."		Pump box on fuel truck broke as truck was backing up.
1/15/96	1996-IR-98605	Seawater Injection Plant	Seawater	35.00	Gasket in hose rolled during transfer of fluid.	"Spill was cleaned up using shovels and loader. - Contaminated snow was placed in a open top tank, melted and taken to Pad 3 for injection."		Gasket in hose rolled during transfer of fluid.
7/18/90	1990-IR-97045	Well Pad, Roads	Diesel	35.00	"Unknown, observed on ponded, culverted water."	YES -		"Unknown, observed on ponded, culverted water."
3/10/90	1990-IR-97249	Drill Site 01	Seawater	35.00	Leaked from fitting when pressure applied.	YES -		Leaked from fitting when pressure applied.
1/8/91	1991-IR-97217	Main Construction Camp (MCC)	MEG	35.00	Plastic bleed valve broke off line.	YES -		Plastic bleed valve broke off line.
2/28/91	1991-IR-97635	Flow Station 1	Crude Oil	35.00	Tanker was overfilled.	YES -		Tanker was overfilled.
6/16/96	1996-IR-98616	Drill Site 02	Diesel	35.00	Overfilled fuel tank.	Used bobcat with scratcher and bucket along with shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 6/24/96 to be held for future remediation.		Overfilled fuel tank.
2/25/88	1988-IR-96599	Drill Site 01, Not specified	Crude Oil	35.00	Tap left unplugged	Not specified	Not specified	Not specified
6/23/88	1988-IR-96437	Drill Site 07, Not specified	Diesel	35.00	Tubing split	Not specified	Not specified	Not specified
5/27/88	1988-IR-100711	Not specified	Crude Oil	35.00	Gasket leak	Not specified	Not specified	Not specified
10/3/92	1992-IR-86678	Well Pad M	Seawater	34.00	Vac truck operator was transferring fluids from truck to a BJ tiger tank. This type of tank is not usually used on the WOA. Since the internal overflow configuration of this tank was not familiar to the operator, and it cannot be seen from the outside, the tank overflowed. The driver was informed of the unusual configuration of the BJ tank. Signs were placed on all tanks of this type to prevent future incidents.		Contaminated material was taken to T-Pad.	Vac truck operator was transferring fluids from truck to a B.J. tiger tank. This type of tank is not usually used on the WOA. Since the internal overflow configuration of this tank was not familiar to the operator, and it cannot be seen from the outside

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/19/07	2007-IR-2194340	MOWF POL Building, Non Process Area	Methanol	33.00	Pump truck crew rigged up to the POL methanol loading dock. Crew opened their valves to begin loading, and heard a hissing sound coming from the pump truck suction manifold cam-lock fitting. Crew shut down, and began suck-back operations. Helper removed the bull plug from the load line bleeder hose to allow air flow for suck-back. Crew completed suck-back operations, and shimmed the cam-lock fitting. Crew re-opened valves to load methanol and had successful flow of fluid. Hand forgot to re-install bull plug fitting in bleed hose. After loading approximately 11-BBLS, the hand went out to conduct a walk-around, and noticed methanol leaking out of the opened bull plug fitting into secondary containment. The crew immediately shut-down, and notified supervisor.	The standing liquids in the half drum were removed with the same truck that was taking on the product. The snow in the containment area was removed using shovels. The containment area was also cleaned using universal sorbents.	The drum was sucked back out with the truck. The reminder of the liquids and impacted snow was taken to the SRT accumulation bin for recycle.	The verbal notification was made by the acting WOA environmental advisor on 3/19/07 at approximately 11:55 AM
8/5/94	1994-IR-98243	Drill Site 15	Methanol	33.00	Pipe parted on coil tubing unit.	Metis/Cleanup		Pipe parted on coil tubing unit.
4/4/99	1999-IR-98839	Drill Site 04	Produced Water	32.00	DS4 sump vessel relief/pressure control line carried over fluid to the outside vent. The vent line is open ended and has a 55 gal drum underneath the line. The drum catches minor quantities of liquid. The gas/liquid ran over the drum.	"Sump vent blew produced water onto pad. Ice and gravel was jack hammered up, loaded into dump truck, and taken to Pad 3 West Pit."		DS4 sump vessel relief/pressure control line carried over fluid to the outside vent. The vent line is open ended and has a 55 gal drum underneath the line. The drum catches minor quantities of liquid. The gas/liquid ran over the drum.
1/2/89	1989-IR-96282	Drill Site 17, Not specified	Diesel	32.00	Discovered spill	Not specified	Not specified	Not specified
8/20/87	1987-IR-96237	Flowstation Common Lines, Not specified	Crude Oil	32.00	FS2-DS4 corroded	Not specified	Not specified	Not specified
1/11/84	1984-IR-96137	Drill Site 07, Not specified	Crude Oil	32.00	Bull plug broke	Not specified	Not specified	Not specified
5/14/88	1988-IR-96350	COTU Facility, Not specified	Diesel	32.00	Fuel tank leak	Not specified	Not specified	Not specified
10/18/90	1990-IR-97142	Drill Site 15	Seawater	31.00	Valve on hardline vibrated open.	YES -		Valve on hardline vibrated open.
3/8/02	2002-IR-180453	Well Pad K, K-03	Hydraulic Fluid	30.00	Coil Unit Number 3 had just completed job and was in the process of rigging down on K pad Well # 3 . The crews had set the injector on the back deck, and were in the process of releasing the safety locking pins on the trolley. While unlocking the trolley, they lost hydraulic pressure. The crew shut down operations to investigate the loss of pressure. They found a hydraulic hose leaking under the unit (Power Pack}. The crew notified spill response and the Wells Group PE. The spill response representative estimated the spill to be 30 gallons with 5 gallons out of containment. The Unit was repaired and the initial investigation found that the ruptured hose came from one the Hydraulic pumps in the Power pack. These pumps move fluid at a rate of 28 gallons a minute. The hose had been replaced recently (2 months) the reason for the hose failure is still being reviewed. The hose appears to have rubbed against a second hose and ruptured. No injuries resulted from this incident.	Sorbents were used to wipe up standing liquids and equipment parts. A loader was used to clean affected snow covered gravel pad.	Sorbent materials were taken to the NSB oily waste dumpster. The fluids recovered will be recycled. The contaminated snow was taken to Pad 3 disposal facility.	Normal operations include putting containment liners under the unit. This unit had multiple containment liners that caught the majority of the product from reaching the ground.
3/21/05	2005-IR-1290094	Hot Water Plant, Hot water Plant pad, Non Process Area	Fresh Water	30.00	Employee was dispatched to the hot water plant pad to locate an open top tank used to offload material. He was driving a Vac truck loaded with Cement returns from DS17-13 Upon arriving at the tank the employee realized that he did not have the proper fitting to hook up to the open tops fill line. The employee decided to hook up to the vacuum line of the tank. He investigated the placement of the vacuum hose in the open top tank and visually saw the hose going down into the material in the tank. He did not notice that on the far end of the tank the hose traveled up out of the snow and was tied nearly vertical to prevent the hose from freezing in the material. As the employee began offloading the material from the truck, fluid was being discharged into the air and onto the ground from the hose, the operation was shut down and reported immediately.	Hand tools, Loader, and dump box were used to remove material.	Maerial was brought to G&I for disposal.	This an updated report: NOTE: This material is Cement Returns with a PH of 12.3. There is no a drop down for this material in Traction, so it was reported as water.
12/11/06	2006-IR-2084055	Drill Site 15, inside 15-43 well house, FS3	Crude Oil	30.00	Gas and Oil released from the 15-43 well head area. Can not verify at this time where the leak is coming from. SSV valve was shut in as soon as leak was detected. Note on January 11, 2006. A duplicate IR has been created to capture the gas release. Traction only allows entry of one type of material release, which made it impossible to capture both an atmospheric and a spill release in the appropriate metrics. The duplicate IR number is 2119361. shannon demarco	The walls and well tree were wiped down with Chem Clear and absorbent materials. Wellhouse floor grating and underlying contaminated gravel will need to be removed. Contaminated gravel under the removable grating has been recovered. The well house still needs to be removed to collect 100%.	Rags and absorbent materials were disposed as solid oily waste. Contaminated gravel will be disposed at the G&I facility.	The volume of natural gas released was 46,000 standard cubic feet. That number is automatically converted to gallons in Traction.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/29/07	2007-IR-2423019	Drill Site 12, DS 12 manifold Bldg., FS1/SIP/STP	Emulsion Breaker	30.00	A C-Pad chemical delivery driver reported an Emulsion Breaker release due to a tank overfill at DS 12 Mod in Deadhorse. SRT was immediately notified by the pad operator. The driver was offloading an Emulsion Breaker (EC2085A) order of approx. 300 gallons with the help of the pad operator. The driver made the connection at the fill point outside and the pad operator monitored the level on the sight glass inside at the tank location. Communication was established between the operator and the chemical driver using the Harmony radios to initiate the fill. The chemical driver reportedly continued to fill until he saw the pad operator running out of the mod because the tank had overfilled. The driver immediately shut down the pump. The C-Pad driver reported that he did not hear any communication on the radio from the pad operator informing him that the tank was at half capacity or nearly full. SRT and the BP Environmental Advisor met with the delivery driver and the HSE Advisor for the group at the entrance to the pad to discuss the event details. The MSDS for the chemical was provided to SRT by the delivery driver. The Hazardous Materials team was dispatched for spill remediation.	Absorbent was used to remove the standing fluid's inside the Mod. A barrel vac, Hand tool's and Jackhammer's were used to remove standing fluid's, and contaminated gravel.	All fluid's, gravel, and saturated absorbent went to the Hazwaste coordinator to be shipped off Slope as Hazwaste. Lightly contaminated absorbent went to oily waste.	Agencie's were notified of release. Note: Samples results for GRO and BTEX indicate the site meets cleanup standards.
6/15/07	2007-IR-2302931	Drill Site 09, DRILL SITE 9-25 WELL HEAD, FS2/COTU	Produced Water	30.00	WELL 9-25 SWAB CAP O RING FAILURE RESULTING IN FLUID RELEASE	Super Sucker used to remove greavel from cellar.	Material brought to G&I for disposal.	Conductivity test of gravel in cellar after contaminated gravel removed. Method SM2510B Results;1428 umhos/cm
6/26/01	2001-IR-101711	Well Pad K	Sewage	30.00	Sewage tank at rig camp overfilled. High level alarm sounded but rig personnel were unaware of alarm function. The breaker panel that controlled the alarm was marked Hydrogen Sulfide (both sewage high level and H2S are apparently wired to the same breaker). The alarm was killed by tripping the breaker and a call was put in for the electrican to fix the H2S system in the morning. A cam-lok cap usually on the suction line was left off. K pad is right on the boundry line for tank maintance (EOA/WOA). Sewage truck not aware that the rig has been on location for 4 days.	Material was cleaned up with heavy equipment and hand tools.	Material was taken to Pad-3 for disposal.	This information is being provided to fulfill spill notification requirements under 19 ACC 75.300.
3/1/01	2001-IR-100945	Well Pad Z	Seawater	30.00	On March 1st, the VECO valve crew was responding to a service call on a tree valve at Z-pad. When exiting the pad one of the Technicians noticed fluid around an upright tank. He immediately contacted his dispatcher for assistance. Upon closer examination he noticed a leak coming from behind a valve flange, he placed temporary containment under the leak until help arrived. Upon investigation of tank UR1 it was discovered that it contains internal steam coils that are fed by an external valve that has been replaced by a gasket and blind flange. The internal coils are corroded and contained liquids that became frozen while the tank was not in use. Once the hot seawater was added to the tank an ice plug in the coils began an expansion and contraction that eventually lead to the cracking of the Garlock gasket which allowed leaking from behind the flange.	Material has been cleaned up using a loader and dump truck.	Al contaminated snow and ice has been taken to Pad-3 disposal facility.	Spill reported to AK State Troopers (ADEC after hours) spill hot line @ 11:00 p.m. on 3/1/01.
11/29/01	2001-IR-138899	Well Pad U, Well U-15B	Drilling Mud	30.00	While drilling, the Dowell Schlumberger mud pump packing failed and resulted in a release of drilling mud. The sump and secondary containment beneath the pump were overwhelmed, and about 10 gallons of mud spilled onto the Pad covering an area about 5' in diameter. The spilled mud, gravel, and snow (all Class II) were put in the cuttings box for later Class II disposal. Because of limited access, additional cleanup may be required when the equipment moves off location.	Free standing liquids in containment were placed in mud cuttings tank for disposal. Pump and containment area were wiped down with absorbent pads. The contaminated snow and mud on the pad was cleaned up with hand tools and placed in mud cuttings tank. A final clean up was performed after rig moved using a loader to scrape up any remaining product that could not be reached with hand tools.	Class II disposal well.	The rig was moved and the final clean up has been completed with the loader.
2/18/01	2001-IR-100555	Point MacIntyre	Methanol	30.00	Coil Tubing Unit #8 was rigged up to well P2-30 when a coil tubing failure occurred. The unit was rigged up in preparation for a cement squeeze. The crew had run in hole while pumping on the backside. The coil was stopped and a weight check was taken at 8550 feet. When the crew commenced running in the hole the pipe kinked downstream of the level wind and the gooseneck. The coil pressure, at time of failure, was 1600 psig and the wellhead pressure was 1480 psig. The Coil Life at 8639 feet was 20% and total running feet was 400,680 feet. The crew closed their slips, pipe rams, and sheared the coil when the failure occurred. They then notified the Spill Hotline (x5700) and the Well Ops. Supervision & Safety of the incident. The Spill Technician's estimated the spill volume to be 30 gallons of seawater and 60/40 methanol. There was 28 gallons of fluid captured in the secondary containment of the coil unit's reel sump and 2 gallons on the snow covered pad. The crew is to be commended for their immediate and professional response which prevented this incident from more severe.	Scraped up contaminated materials with hand tools and placed in oily waste bags.	Pad 3 East Pit	Alaska State Troopers notified at 22:55 on 2/18/01 by John Parson.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/6/01	2001-IR-100965	Flowstation Common Lines	Diesel	30.00	Heavy equipment operator blowing snow got too close to edge of roadway and slid approximately 2' into VSM on flowline road that connects FS#2 and FS#1. The VSM punctured a hole in the fuel tank and 30 gallons of fuel leaked onto the snow. Property damage estimaged at $200. SRT cleaned up spill and a spill report was generated.	Use backhoe and Bobcat in addition to hand tools to dig out contaminated snow/ice/gravel.	Diesel will be skimmed off of snow melt with absorbents. Fluids will be disposed of at pad 3. Absorbents will be disposed of as hazwaste.	Walt Sandel of ADEC inspected site
7/17/03	2003-IR-570859	Well Pad S, S Pad gravel surface	Diesel	30.00	Fuel tank support strut under trailer failed due to metal fatique allowing the fuel tank to come off the trailer frame causing a spill.	Contaminated gravel was removed from the pad with heavy equipment, hand tools and dump trucks.	Gravel to Pad 3, contaminated absorbents to Peak Facility for disposal.	No damage to tundra sustained.
10/19/06	2006-IR-2022241	Well Pad C, C-19 well cellar, GC3	Crude Oil	30.00	Crew was performing an MIT-OA to 2,000 psi on well C-19. When the pump pressure reached 1,200 psi a sudden 500 psi drop occurred. The crew shut down and went to inspect the well house. They discovered crude oil seeping out of the the well head OA flutes.	Absorbent was intially placed in the well cellar by well crew to soak up free standing crude oil.The contaminated well cellar gravel was flushed out with water and the free standing crude was sucked up. A super sucker was used to remove residual crude in the gravel.	Absorbent pads were taken to an approved NSB oily waste dumpster. The wash water and crude oil was taken to Pad-3. The gravel was taken to the Grind & Inject Facility.	
11/2/01	2001-IR-131083	Drill Site 04, drill site 4 manifold building.	Hydraulic Fluid	30.00	During normal operations at drill site 4, a hydraulic seal (o-ring) on an IGV bonnet failed. This failure allowed hydraulic fluid to pump out into the manifold building. The spill was contained by the module floor and floor sump and was cleaned up by the area operator with assistance from other drill site operators and SRT. No abnormal conditions were present. It appears that the age of the seal material contributed to the failure.	Majority was collected in liquid form in the manifold sump. Remainder was absorbed with absorbant pads and disposed of as oily waste by SRT. Final clean up with soap and water.	Majority was returned to the process stream via the manifold sump. Remainder disposed of by SRT as per established oily waste protocol.	
3/27/02	2002-IR-192145	Well Pad X, X-09-B	Diesel	30.00	DURING THE RIG MOVE FROM WELL X-09B, THE RIG MATS AND PLYWOOD COVERING AROUND THE XMAS TREE WERE REMOVED AND, APPROXIMATELY 30 GAL WAS DISCOVERED IN THE CELLAR, AND ALONG THE EDGE OF THE CELLAR. THE DIESEL ON THE GRAVEL PAD, ALONG THE EDGE OF THE CELLAR, WAS A STRIP APPROXIMATELY 1-1/2' WIDE. IT WAS ON THE NORTH SIDE OF THE CELLAR BOX (6' LONG). DIESEL FREEZE PROTECTION OF THE WELL AND TREE HAD JUST BEEN PUMPED PRIOR TO RIGGING DOWN AND MOVING THE RIG.	The standing diesel has been removed from the well cellar with a vac truck. Then the ice in the cellar was washed off using a truck with hot water and a fire hose. The wash fluids were removed with the vac truck. The contaminated gravel was shoveled out of the cellar with hand tools.	All of the fluids will be taken to GC-2 for recyle. The contaminated gravel will be taken to Pad-3 for disposal.	
8/18/03	2003-IR-596324	Pad 3, Pad 3	Hydraulic Fluid	30.00	Employee was offloading at Pad 3. As employee begin to offload he noticed that the hydraulics did not sound right. Employee went to the dog house and discovered hydraulic fluid leaking in the dog house and onto the pad. Employee immediately shut down the motor and notified Pad 3 operator. Employee begin to contain hydraulic fluid with absorb. Dispatch was notified and all notifications were made. SRT was on scene and begin the cleanup. The hydraulic fluid filter was found on the floor of the dog house. The filter had vibrated off and approximately 30 gallonsof hydraulic fluid had drained into the dog house.	Sorbents were used to soak standing fluid on gravel, and Bobcat and dump box wrere used to remove contaminated gravel.	Sorbents went to oily waste stream, Gravel went to Pad 3 for disposal.	
6/7/06	2006-IR-1863309	Drill Site 15, DS 15-02B, FS3	Hydraulic Fluid	30.00	Pipe ejector became damaged during operations of picking up drill pipe causing the cylinder seals and hose fittings to fail releasing approximately 30 gallons of hydraulic fluid before personnel noticed the oil leaking out from the containment area under the pipe shed.	Hydraulic fluid was cleaned up with use of absorbent and placed into oily waste bags for disposal. There appeared to be no visual contamination after the Rig had moved.	Contaminated absorbents were disposed as solid oily waste.	
4/16/05	2005-IR-1326947	Drill Site 09, DS 9 Well 20, FS2/COTU	Seawater	30.00	On the morning of 16 April, the employee was preparing to offload 1%KCl / extra slick into a 400 bbl upright tank. Throughout the night, he had performed the same task twice previously to the same tank that he was currently hooked up to. When he offloaded the two previous loads, he had climbed and strapped the tank himself. During this particular offload, Schlumberger hands performed this task for him. He was in the Operations Cab of the coil unit at this time. The company man told him that this time, he would need to offload into the inside tank, instead of the outside tank, as he had twice previously. It seems that our employee misunderstood, and went out and began to offload into the same tank as before, which was full. Before long, the tank had overflowed, and released approximately 30 gallons onto the ground. Our employee from the Vac unit, and the Co man from the Op¿s cab noticed the incident at about the same time. Pumping operations were halted, and the incident was promptly reported.	A loader with a scratcher and bucket recovered the contaminated snow and ice and placed into a dump box for disposal.	Contaminated snow and ice was taken to T-pad for disposal.	
5/31/06	2006-IR-1855736	Well Pad D, D-14 Cellar, GC1	Diesel	30.00	Observed fluids bubbling in the cellar while performing an MIT. Ceased work and reported the event.	Free standing liquid in the well cellar was recovered using a vac truck. The cellar was then rinsed with fresh water to recover and residual diesel in the well cellar.	The free standing liquids were taken to GC-2 for recycle.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/25/04	2004-IR-917114	GC-2 LPS Section, GC-2 Skid 510, N pad LDF, GC2/SAT	Crude Oil	30.00	During normal mid morning rounds the area operator found Produced Water and Oil on the module floor in Skids 510 and 450. The operator contacted the facility lead operator to investigate the source. The operators found a leak at the 6 o¿clock position on the 24¿ transition piping from N pad LDF manifold in module 450 to the pig receiver in module 510. The operators requested Central Control Room to pull rate from N pad LDF and shut-in the SDV¿s in the field then they completed the safeout of this section of piping to stop the leak. All liquid was contained with-in the Skids and 5700 was called to report the leak in accordance with BP policies and procedures.	The freestanding liquids were recovered using a air operated vacuum unit and placed into 55 gallon drums. A Vac truck was used to transfer the liquids for disposal.	Liquids will be recycled or taken to Pad 3 for disposal.	
5/25/04	2004-IR-917114	GC-2 LPS Section, GC-2 Skid 510, N pad LDF, GC2/SAT	Produced Water	30.00	During normal mid morning rounds the area operator found Produced Water and Oil on the module floor in Skids 510 and 450. The operator contacted the facility lead operator to investigate the source. The operators found a leak at the 6 o¿clock position on the 24¿ transition piping from N pad LDF manifold in module 450 to the pig receiver in module 510. The operators requested Central Control Room to pull rate from N pad LDF and shut-in the SDV¿s in the field then they completed the safeout of this section of piping to stop the leak. All liquid was contained with-in the Skids and 5700 was called to report the leak in accordance with BP policies and procedures.	The freestanding liquids were recovered using a air operated vacuum unit and placed into 55 gallon drums. A Vac truck was used to transfer the liquids for disposal.	Liquids will be recycled or taken to Pad 3 for disposal.	
5/12/03	2003-IR-508200	Drill Site 09, DS-9 well 1	Crude Oil	30.00	9-1 GREASE FITTING IN GROVE VLV. FAILED SPILLING ABOUT 30 GALLONS CRUDE	Contaminated snow was recovered with a loader and placed into a dump box for disposal.	Material will be taken to G&I for disposal	
5/8/04	2004-IR-895219	Drill Site 16, 16-21 slop oil trailer, FS2/COTU	Diesel	30.00	While bleeding annulus, high pressure hose fitting on trailer failed and released dirty diesel to pad.	Contaminated area was cleaned up with a loader and bucket and placed into a dump box for disposal. Hand tools were used to get the areas where the loader was not able to reach.	Material was taken to G & I for disposal	
10/25/07	2007-IR-2446942	Drill Site 07, DS-07 manifold bldg hydraulic skid, FS3	Hydraulic Fluid	30.00	AT 22:57 received an alarm, on entering manifold noticed mist in air and smelled hydraulic fluid. Found 1/4" SS TBG broken at fitting dumping entire hyd. system on floor. Called 5700 and reported spill. Started clean up.	Material absorbed up.	Sorbents sent to oily waste.	
5/7/05	2005-IR-1356455	Drill Site 15, DS15-22 pad, FS3	Sewage	30.00	During daily enviromental walk around employee noticed fluid running onto the pad from the sewer plant. Upon closer inspection it was found that a holding tank had overflowed due to a atuomatic pump not running and keeping level of fluid below top of tank. Pump was started manually and fluid level reduced to stop the overflow.	Indentified contaminated area. Isolated with identifcation cones. SRT to clean up after camp move.	SRT	
5/18/03	2003-IR-512856	Main Construction Camp (MCC)	MEG	30.00	Maintenance personnel had refilled a glycol tank for heating system in MCC twice in a short time. Employee reported occurence to supervisor , who went to MCC to investigate possible leak. Leak was found at an 1 1/4" di-electric union under one of the resident wings. An undetermined amount of glycol leaked out of the utilidor to the underside of the building onto the pad. Upon further inspection determined that the gasket in the union had gone bad.	SRT has been contacted for clean up. Liner has been placed under building with absorbent pad in the liner and in the utilidor in the building.		
9/10/97	1997-IR-89368	BOC	Drilling Mud	30.00	At 13:45 hrs. during a routine Supersucker truck offloading and gravel washing procedure, the MCC panel breaker tripped shutting down the primary vibrating screen utilised for cuttings/ fluid seperation. This allowed drilling mud to flow over the classifier screens and discharge into a near capacity cuttings bucket containing washed gravel on the interior of the facility. Drilling mud escaped from the overfilled cuttings bucket, flowed across a below floor level walkway installed for equipment maintenance purposes and escaped the facility. 20 gals. of high viscousity drilling mud was captured in the facility secondary containment dike with 10 gals. escaping to the pad due to a spattering effect when the fluid encountered the tail roll section of the facility module. The Ball Mill operator used normal start up procedures and was addressing other equipment in the offloading train at the time of the electrical failure. Due to the high noise environment of the facility he did not hear or notice the classifier shut down. The Peak driver of the Supersucker being offloaded noted the drilling mud escaping the facility and used the communication box in the offloader area to notify the operator of the problem. The offloading operation was terminated and immediate clean up was innitiated. The spill was contained on the pad with no environmental impact to tundra or waterways. Pad gravel contaminated with class 2 drilling mud was processed at the Ball Mill. The vibrating screen MCC panel breaker was reset and the equipment was test run for observation prior to resuming operations. OI Compliance Lead spill Tech was consulted at 14:30 hrs.		The class 2 drilling mud and contaminated gravel was processed and injected at the CC2A Ball Mill.	While off loading a Supersucker truck laden with drilling mud, 30 gallons of mud was spilled due to equipment failure. A failure in a breaker panel caused a piece of processing equipment to shut down allowing gravel/fluid to overflow the unit and escape f

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/5/97	1997-IR-91446	Well Pad M	Crude Oil	30.00	While safing out well M-21 to tie in the Trico separator for well testing, the slop oil tank was overfilled and dumped about 30 gallons of crude oil from the slop oil tank vent to atmosphere on the ground behind Skid 54. The root cause of this spill was a leaking "knocker valve" from the drain system to the slop oil tank. The pad operator was attempting to unplug the drain line for M-21 by pressuring up the drain system with produced water from M-20 and backflowing 2000 psi produced water from the drain system into the flowline of M-21. At the same time, the pad operator was pumping down the slop oil tank and had the vent to atmosphere open. While the drain system was pressured up to 2000 psi, the "knocker valve" (block and control valve form the drain to the slop oil tank) gave way (rapidly started leaking) into the slop oil tank and out the vent to atmphsphere. The operator then had to climb up a ladder to the next level and shut off the source of produced water form M-20. This spill would have been much worse if not for the quick reaction of the operator.		Exempt c lean- up material has been taken to Pad 3 for disposal.	A well drain line was being pressured up to clear the line when a v alve, isolating the drain line from the slop oil tank, failed. The slop oil tank overfilled and approximately 30 gallons of crude oil discharged through the slop oil tank vent which wa
5/4/94	1994-IR-86251	BOC	Drilling Mud	30.00	Peak Vac started off loading at injection skid. When truck operator started off loading pump, he returned to rear of truck to find drilling mud leaking from bottom tank hatch. He shut down pump at once, and operator of injection skid was notified.		Material will be injected at Ball Mill Facility.	While off loading drilling mud at Ball Mill Facility, Peak vac truck #K 119 developed leak at the lower hatch seal inside the truck, spilling approximately thirty (30) gallons of drilling mud on the ground. A liner was in place and caught approximately
2/9/98	1998-IR-90380	Well Pad C	Crude Oil	30.00	The pump unit crew was preparing to freeze protect well C-33. The pump operator primed the pump, fluid packed the hardline, and then pressure tested the system. He then shutdown the pump and went in the manifold skid to line up the well. When he came out of the manifold skid he noticed crude oil coming out of the vent line on the pump unit. Investigation revealed that the pump operator had failed to close a pneumatic valve prior to leaving the unit and head pressure from the crude oil tanker caused the tank in the pump unit to overfill.		Exempt clean-up material has been taken to Pad 3 and has been disposed of.	While performing downhole freeze protection operations on C Pad, the tank of Pump Truck #90-863 overflowed spilling approximately 30 gallons of crude onto the pad. A valve was inadvertently left open during a walk around of the unit.
4/17/99	1999-IR-98795	Access Road	Diesel	30.00	"A piece of 4"" banding was sticking up from a rig mat at DS 16. A guzzler on the pad completed off-loading and pulled forward. When he did, the metal piece hooked the equalization line which ruptured the valve."	The volume of contaminated snow is 169 cu yds & contaminated gravel is 16 cu yes.	All material recovered has been manifested to Pad 3 and deposited in the East & West Pits as per the manifest.	"A piece of 4"" banding was sticking up from a rig mat at DS 16. A guzzler on the pad completed off-loading and pulled forward. When he did, the metal piece hooked the equalization line which ruptured the valve."
3/24/95	1995-IR-87152		Seawater	30.00	Peak called to bring load of seawater to BP PE job on well S-25. Peak could not cover job and called VECO to dispatch vac truck and driver. VECO driver proceeded to ARCO SIP (PBU-EOA) and commenced loading seawater. Inattentiveness led to tank overfill, putting 30 gal seawater on pad (no secondary containment). Details and paperwork were not provided to PE Dept. until 3/27/95. Spill was cleaned up and used for original purpose. VECO driver is experienced in vac truck operations, but this was only the second time he had loaded seawater at this facility. Tank level indicator was working properly, but driver did not commence fluid shutoff procedures until indicator read, essentially, full.		The material was melted and used for the original purpose at well S-25.	While loading seawater at Arco's SIP (for a PE job on well S-25 on the WOA) , the vac truck operator overfilled the vac truck allowing seawater to spill onto the pad.
10/18/98	1998-IR-90265	Well Pad R	Diesel	30.00	While preparing to leave the coil tubing work being performed at well R-6, a PEAK tanker truck spilled approximately 15 gallons of diesel fuel onto the gravel pad. An additional 15 gallons was caught in secondary containment. The spill was caused when a metal riser block, used to elevate the front of the truck to aid in product removal from the tank, punctured the right front fuel tank. The riser came into contact with the tank when the right front tire of the truck was driven off the front edge of the block, causing the rear edge of the riser to rotate upwards, puncturing the tank. The tanker driver and the coil tubing unit crew reacted promptly to contain as much of the tanks contents as possible. BPX Environmental was notified and the area was cleaned up for disposal.		Sorbents were disposed of in an oily waste dumpster and non-hazardous contaminated soil was transported to ARCO Pad 3 for disposal.	While preparing to leave the coil tubing work being performed at well R-6, a PEAK tanker truck spilled approximately 15 gallons of diesel fuel onto the gravel pad.
6/8/92	1992-IR-87229	Field Ops Center (FOC)	Diesel	30.00	A new wireline unit had been driven to the FOC from Deadhorse. While sitting overnight, the diesel tank on the vehicle cracked and leaked the diesel. All material was scraped up with a loader. Contaminated gravel was taken to A3W2 snow melter for flushing. The tank was repaired and no further leaking exists.		Contaminated gravel was taken to A3W2 snow melter for flushing.	A new wireline unit had been driven from Deadhorse. While sitting overnight the diesel tank on the vehicle cracked and leaked the diesel.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/14/93	1993-IR-88425	Well Pad A	Crude Oil	30.00	The erosion repair work had been completed on JO# 042866 (Glenn Fisk to modify logic/to resolve). A-14 to 46 header. The field crew was pressuring up skid #54 to check the repair for leaks. The field crew asked skid #7 to safe in skid #450 and skid #8 in preparation for startup. When the skid #54 pressure was approximately 350# and there were no leaks, the Night Operations Supervisor asked skid #7 to start backing in warm gas to 'B' slug catcher and down the 'A' LDF. The 'B' slug catcher had been shutdown during the repair and depressured to the flare. There were double blocks and bleeds established in skid #450 for the repair. Skid #7 opened the slug catcher gas valve SDV and used the pressure controller to back gas into the slug catcher without first opening the skid #450 valve to 'A' LDF. When 'B' slug catcher reached about 152#, skid #7 opened the 'A' LDF divert in skid #450. (There is over protection logic to prevent this from happening, however it failed to work.) The pressure surge knocked the LDF off all the expansion loops and when the expansion loop nearest GC-3 came back to the VSM a hole was punched in the upper third of the LDF. The Rover was at skid #8 and heard a noise like a PSV lifting. It sounded like it might be behind skid #32. He couldn't find anything and told skid #7 that something was still lifting and he couldn't find it. The operators in skid #18 and #27 reported a gas smell. The Rover drove to skid #450 to check and then to skid #301. When he got to skid #301 he smelled gas and saw a gas leak coming from the 'A' LDF across the spine road. He requested skid #7 to depressure the 'A' LDF and call ERT. Skid #7 depressured the LDF to the flare and then depressured all of 'A' pad to the flare. After the LDF was depressured, it was approached with Scott air packs to assess the damage.		Contaminants taken to Pad 3.	As line was being pressured, a pressure surge occurred causing line to jump off VSM striking the cross member which punctured the line.
3/7/92	1992-IR-87254	Well Pad Z	Methanol	30.00	Backflow check valve in hose from well to methonal tank failed. A gas bubble from the well caused methonal to overflow the holding tank. A loader and dump truck were used to pick up and remove the contaminants from the spill site. Contaminated ice and snow were taken to T pad lined pit for summer removal. The check valve was replaced.		Contaminated ice and snow was taken to T pad lined pit for summer removal.	Backflow check valve in hose from well to methonal tank failed. Gas bubble from well caused methonal to overflow the holding tank.
6/30/92	1992-IR-87235	GC-2 Pad	Crude Oil	30.00	An operator inadvertently moved the wrong lever allowing the rear of the "super sucker" to open and dump oily frac sand onto the pad. Sorbent was used to pick up the pooled oil. The "Super Sucker" picked up the remaining oily frac sand from the pad. Used sorbents were placed in special dumpsters for disposal at NSB incinerator. Oily frac sand was taken to Arco Pad 3 pit. The operator was reminded to pay closer attention when operating equipment.		Used sorbents placed in special dumpsters for disposal at NSB incinerator. Oily frac sand taken to Arco Pad-3 pit.	Operator inadvertantly moved wrong lever, allowing rear of "super sucker" to open and dump oily frac sand onto pad.
8/31/95	1995-IR-98524	Seawater Injection Plant	Seawater	30.00	O-ring on the door of a pig launcher failed. Suspected that o-ring may have been pinched when it was changed out.	A bobcat and handshovels were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 9/3/95 to be held for future remediation.		O-ring on the door of a pig launcher failed. Suspected that o-ring may have been pinched when it was changed out.
11/13/99	1999-IR-98345	Drill Site 15	Seawater	30.00	Drain valve was open on Dowell ACM mixer. The valve was located under the unit and not accessible for inspection.	The SRT was notified and came out to the spill site. A vac truck was used to clean up the free standing fluids. The SRT used a loader to pick up caontaminated snow and place in dump box. Shovels were also used to pick up material around staged equipment.		Drain valve was open on Dowell ACM mixer. The valve was located under the unit and not accessible for inspection.
1/12/97	1997-IR-98677	U-21 (EOA Building)	Crude Oil	30.00	Warm weather caused crude in demobe pipe to thaw. Penetrated absorbs and oily waste bags taped over ends of pipe.	"Norcon laborers used shovels, oily waste bags and 1/2 barrels to contain and clean up spill. - Flow Station 1 Recycle."		Warm weather caused crude in demobe pipe to thaw. Penetrated absorbs and oily waste bags taped over ends of pipe.
11/10/97	1997-IR-98633	Drill Site 15	Seawater	30.00	"While pumping seawater to open top tank, product blew out the top and sprayed onto the snow covered pad."	Pulled out tank and removed contaminated snow with loader. - Sent contaminated snow for disposal at DS16 temporary storage.		"While pumping seawater to open top tank, product blew out the top and sprayed onto the snow covered pad."
6/5/94	1994-IR-98205	Drill Site 05	Diesel	30.00	Diesel contamination observed during preparation of well head area. Exact cause & source are unknown.	Supersucker was used to recover contaminated gravel. Cleanup was delayed until rig moved off site. Final cleanup took place on 7/18/94. - Contaminated gravel was taken to Pad 3 West Temporary Pit on 7/8/94 to be held for future remediation.		Diesel contamination observed during preparation of well head area. Exact cause & source are unknown.
3/21/93	1993-IR-97418	Drill Site 04	Crude Oil	30.00	Small hole in the production header inside module caused material to spray out thru the exhaust fans.	Metis/Cleanup		Small hole in the production header inside module caused material to spray out thru the exhaust fans.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/3/93	1993-IR-88998	Well Pad Q	Crude Oil	30.00	Small leak discovered by inspection technician on GC-2 to GC-1 tie-line, near 'Q' Pad expansion joint. Total accumulation of fluid on tundra was 20 to 30 gallons. Portable spill containers put in place and insulation removed to locate leaks. RTR has revealed nine defective areas in 1900 feet of pipeline inspected, with four defects being leaks. Will sleeve defective areas and perform 100 percent RTR on entire tie-line to determine extent of damage. After a complete evaluation is obtained a plan of action will be formulated.		Cut grass and sorbents were incinerated. Soil was taken to Pad 3.	Corrosion caused a pin hole leak in the pipe. Oil dripped through the insulation on to the ground.
6/7/98	1998-IR-98745	Drill Site 02	Crude Oil	30.00	Blown rubber seal on hardline union allowed crude oil to escape into well house and onto the pad.	Well house was hot water washed inside and moved off the well. Contaminated gravel was picked up using a bobcat and a guzzler. - Contaminated gravel was taken to Pad 3 West Temp Pit for future remediation.		Blown rubber seal on hardline union allowed crude oil to escape into well house and onto the pad.
3/23/93	1993-IR-97421	Drill Site 14	Methanol	30.00	Operator did not close pump intake valve while switching to another fluid intake valve.	Metis/Cleanup		Operator did not close pump intake valve while switching to another fluid intake valve.
1/18/94	1994-IR-88242	Well Pad R	Crude Oil	30.00	While loading dead crude from a tiger tank to a chemical injection mix tank on the downhole pump unit, the operator diverted his attention to some pump log paper work. This resulted in failure to shut off the tank filling operation before approximately 30 gallons of crude flowed out of the tank vent and on to the snow around the unit. The affected pad area and equipment were cleaned up with the assistance of the BPX environmental department.		The contaminated material was taken to ARCO Pad 3.	Operator overflowed a truck tank while unloading dead crude from a tiger tank.
2/18/92	1992-IR-97825	Main Construction Camp (MCC)	Diesel	30.00	Fuel truck's P.T.O hose connection broke leaking the material onto the pad.	YES -		Fuel truck's P.T.O hose connection broke leaking the material onto the pad.
2/20/92	1992-IR-97826	G&I Facility	Methanol	30.00	Freshwater tank back flowed into the methanol tank causing it to overflow.	YES -		Freshwater tank back flowed into the methanol tank causing it to overflow.
5/30/91	1991-IR-97435	Drill Site 01	Fresh Water	30.00	Pump from slop trailer to crude tanker was in the discharge position.	YES -		Pump from slop trailer to crude tanker was in the discharge position.
1/25/90	1990-IR-100742	Point MacIntyre	Crude Oil	30.00	Vacuum unit was not cleaned before use for ice road construction.	YES -		Vacuum unit was not cleaned before use for ice road construction.
4/6/93	1993-IR-98147	Well Pad, Roads	Fresh Water	30.00	Valve left open on tank being used to melt contaminated snow.	Metis/Cleanup		Valve left open on tank being used to melt contaminated snow.
3/30/92	1992-IR-97881	Drill Site 12	Methanol	30.00	Material released from vent on a full sump that was not level	YES -		Material released from vent on a full sump that was not level
3/16/94	1994-IR-98462	Seawater Injection Plant	Seawater	30.00	*Tank was overfilled and seawater flowed out the vent pipe.	A 966 loader was used to scrape up the contaminated snow/ice. -		*Tank was overfilled and seawater flowed out the vent pipe.
10/9/90	1990-IR-97132	Drill Site 09	Methanol	30.00	A snowblower blew snow on site glass breaking the glass.	YES -		A snowblower blew snow on site glass breaking the glass.
12/7/94	1994-IR-98426	Drill Site 03	Crude Oil	30.00	"Rubber in 2""""" hard line failed while pumping crude."	SRT and Dowell personnel used loader and hand tools to scrape up contaminated snow. Contaminated materials were loaded into dump truck. - Contaminated materials were taken to the Pad 3 snow		"Rubber in 2""""" hard line failed while pumping crude."
3/21/93	1993-IR-100853	Lisburne Production Center	Diesel	30.00	Nozzle broke loose from diesel hose on fuel truck.	Metis/Cleanup		Nozzle broke loose from diesel hose on fuel truck.
4/5/92	1992-IR-97886	Drill Site 16	Methanol	30.00	Material released from an overpressured valve.	YES -		Material released from an overpressured valve.
8/1/93	1993-IR-97952	C Pad	Diesel	30.00	Overfilled tank whle fueling steamer unit.	Metis/Cleanup		Overfilled tank whle fueling steamer unit.
11/19/90	1990-IR-97179	Drill Site 16	Seawater	30.00	Ice plug came out from frozen connection.	YES -		Ice plug came out from frozen connection.
10/21/91	1991-IR-97559	Drill Site 04	Diesel	30.00	Overfilled open top tank.	YES -		Overfilled open top tank.
11/29/90	1990-IR-97189	Drill Site 05	Diesel	30.00	Storage tank overfilled.	YES -		Storage tank overfilled.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/9/91	1991-IR-97604	Drill Site 04	Seawater	30.00	Overfilled mobile tank.	YES -		Overfilled mobile tank.
12/3/90	1990-IR-97194	Drill Site 09	Methanol	30.00	Pump packing failed.	YES -		Pump packing failed.
10/9/89	1989-IR-96783	Drill Site 18, Not specified	Diesel	30.00	Drain valve bumped open material overfilled catch basin.	Not specified	Not specified	Not specified
5/1/89	1989-IR-100792	Point MacIntyre, Not specified	Diesel	30.00	Bleed back tank was overfilled.	Not specified	Not specified	Not specified
6/15/82	1982-IR-96083	East Dock, Not specified	Diesel	30.00	Found soaked gravel	Not specified	Not specified	Not specified
1/24/82	1982-IR-96089	COTU Facility, Not specified	Diesel	30.00	Found spill patch	Not specified	Not specified	Not specified
12/14/88	1988-IR-96572	Drill Site 11, Not specified	Diesel	30.00	Pressure released	Not specified	Not specified	Not specified
6/8/89	1989-IR-96672	Drill Site 12, Not specified	Crude Oil	30.00	Overfilled tanker	Not specified	Not specified	Not specified
6/1/88	1988-IR-100712	Not specified	Diesel	30.00	Fuel filter leak	Not specified	Not specified	Not specified
6/2/88	1988-IR-96412	Drill Site Maintenance, Not specified	Crude Oil	30.00	Maint bldg. leak	Not specified	Not specified	Not specified
7/25/86	1986-IR-95964	Well Pad, Roads, Not specified	Diesel	30.00	Trailer off road	Not specified	Not specified	Not specified
1/13/89	1989-IR-96641	Drill Site 09, Not specified	Crude Oil	30.00	Sump overflowed	Not specified	Not specified	Not specified
6/11/80	1980-IR-96024	Surfcoat Pad, Not specified	Diesel	30.00	Overfilled tank	Not specified	Not specified	Not specified
8/15/87	1987-IR-96234	Drill Site 02, Not specified	Diesel	30.00	B.P.V. failure	Not specified	Not specified	Not specified
12/28/81	1981-IR-96065	Drill Site 11, Not specified	Diesel	30.00	Gasket failure	Not specified	Not specified	Not specified
10/5/87	1987-IR-96368	Flow Station 1, Not specified	Crude Oil	30.00	Valve failure	Not specified	Not specified	Not specified
1/27/89	1989-IR-100806	Seawater Treatment Plant, Not specified	Diesel	30.00	Hose ruptured	Not specified	Not specified	Not specified
6/15/80	1980-IR-96029	COTU Facility, Not specified	Crude Oil	30.00	Broken line	Not specified	Not specified	Not specified
7/8/88	1988-IR-96456	Drill Site 13, Not specified	Seawater	30.00	Flange leak	Not specified	Not specified	Not specified
12/17/92	1992-IR-86657	Well Pad X	Seawater	30.00	While pumping into one tank and returning fluid into another, the pump rate was too high to equalize both tanks and there was an overflow of seawater. The contamiknated material was scraped up with a bucket loader and put into the Environmental end dump to be taken to T-Pad pit for disposal.		Contaminants were taken to T-pad pit for disposal. Material was all ice, snow, and sea water with no gravel requiring removal.	While pumping into one tank and returning fluid into another, the pump rate was too high to equilize both tanks and there was an overflow of sea water.
5/30/87	1987-IR-96190	Flow Station 3, Not specified	Crude Oil	29.00	Flare deposited crd	Not specified	Not specified	Not specified
12/27/93	1993-IR-86556	Well Pad H	Diesel	29.00			Snow containing diesel and hydraulic fluid was taken to Arco Pad 3. Snow containing methanol was taken to A3W2 melt tank and re-used for freeze protection.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/25/02	2002-IR-296320	Well Pad Z, Well Z-6	Crude Oil	28.00	The CIC Pump Crew was performing a corrosion inhibitor treatment at well Z-6. A tanker truck supplies dead crude to the pump unit during this operation. The tanker truck was connected to the pump unit and in the process of filling the internal holding tank when a filter screen became plugged. The tanker driver stopped the fill operation, disconnected from the pump unit and cleaned the fillter screen. When the filter screen was clean, the tanker driver reconnected to the pump unit and communicated to the pump operator that the connection had been reestablished. The pump operator failed to divert crude flow from the holding tank to the pump suction line which caused the holding tank to be over-filled resulting in about 40 gallons of dead crude spilling on the gravel pad.	Super sucker and sorbent materials cleaned affected gravel pad.	The material was taken to T-pad storage pit.	
12/29/85	1985-IR-95945	Drill Site 06, Not specified	Diesel	28.00	Found in snow	Not specified	Not specified	Not specified
2/25/93	1993-IR-100851	Well Pad, Roads	Sewage	27.00	Frozen pipe fracture on an Envirovac Unit discharged into a lined containment dike.	Metis/Cleanup		Frozen pipe fracture on an Envirovac Unit discharged into a lined containment dike.
4/11/00	2000-IR-94851	Spine Road	Sodium Bromide	26.19	During a rig move from MPU to EOA, sodium Bromide was being trucked and, while in route, a pallet of the material fell off the truck onto the tundra. Material was discovered and reported to WOA Environmental who cleaned up the spill. The material was returned to Baroid for benificial reuse.	snow/salt shoveled up from tundra surface.	material will be taken to Pad 3 for disposal.	NRC report # 525813
1/20/03	2003-IR-418215	GC-1, GC-1 Skid 450	Produced Water	26.00	At approximately 11:45am on January 20th 2003 the loader operator that was doing snow removal on GC1 Pad notified Skid 7 that there appeared to be an oil leak on the backside of Skid 450. The GC1 Rover was called and he responded with the GC1 Operations lead and OTL. They found oil and produced water spray coming off of the Y/P LDF line and notified Skid 7. PCC was called and they took immediate action to shutdown the process coming from Y and P pad. Skid 7 and the rover operator worked together to depressurize the LDF line through the Slug catcher. The SRT lead tech was called out to assess the spill, determine the volume and define the spill area. (See Spill Report Included) The Y and P pad wells will remain shut-in and the LDF line will remain blocked until failure analysis and repair of the line is complete. Janurary 21st 2003 the insulation was stripped from the LDF line and the piping inspector (Doug Anderson) from the mechanical inspection group found a stress (fatigue) crack in the weld for the support leg where the LDF line 90’s down to enter the Skid.	Shovels and a super sucker were used to remove contaminated snow from under and around pipe areas. Pipes and other parts of the facility have been wiped down by hand. Brooms will be used to sweep affected frozen gravel under the skid. A loader was used to remove contaminated snow from pad and road areas.	Class two snow will be taken to T-pad storage facility.The oily sorbent and rags will big taken to an approved NSB oily waste dumpster.	corrected produced water from 24 gallons to 26 gallons BD 2/3/2002
12/11/03	2003-IR-710744	Seawater Injection Plant, SIP Hot sea water loading station	Seawater	25.00	Driver did walkaround in yard before leaving for job site at SIP. After arriving at SIP he started loading hot sea water through the front loading valve. During the loading operation (trailer under vacuum) he did not notice any problems when he periodically walked around his equipment. Upon completion of the loading operation the driver dropped the vacuum on the trailer and at this time noticed sea water at the back of the trailer. Investigation revealed that the rear butterfly valve was not completely closed and the cap was not sufficiently secure to prevent the release of fluid.	Material recovered recovered with a loader w/scratcher and placed into a dump box for disposal.	Taken to Pad 3	A spill review was conducted on 12/15/03 with Vic Richart (EOA Lead Spill Tech) and Mike Galvin (Peak Truck Foreman). It was mentioned that proper procedures were already in place and must be followed. The driver did not physically check the valve to make sure it was closed. It is a standard procedure to physically check all valves and be sure they are closed and caps are locked on tight prior to loading.
6/3/06	2006-IR-1856918	Drill Site 15, DS15-02B, Nabors Drilling Rig 27E, FS3	Diesel	25.00	While displacing diesel/freeze protection from annulus well bore overloaded the gas buster with fluid forcing residual oily diesel mist out of the gas buster vent line.	Absorbent pads were immediately placed over the contaminated gravel and puddles. The mist over the snow on the reserve pit is being shoveled up and will be recovered with a Super Sucker. A Super sucker will also be used to recover some of the contaminated areas on the pad.	Fluids to Pad 3 Oily Absorbant in Oily Waste Bags. Contaminated snow and gravel will be taken to G&I for disposal.	Note: this is the Final report. It was first thought that the contaminated snow near the reserve pit would not be able to be gotten due to the fact that it would people at risk of falling into water. Personnal put wadder's on and recovered all contaminated snow.
5/1/05	2005-IR-1348361	Access Road, K-pad access road between West Dock road and K-pad, Non Process Area	Hydraulic Fluid	25.00	At 06:30 hrs while moving Nordic Rig #1 from DS 18 to F Pad a hydraulic hose to the drive motor on the axle failed resulting in a 25 gallon hydraulic oil release to the road bed. Enviromental was notified (X5700) as well as Nordic, SLB and Drilling management inaddition to the HSE advisors. After hose was replaced and all other hoses inspected the rig backed up to allow laying absorbent. The rig continued over the spill area per Enviro Techs recommendations. After the rig passed the road surface was chipped up and disposed of. The preliminary inspection of the hose and fitting indicate the hose stripped out of the fitting. All hose to the drive system had been inspected by the Toolpusher and Motorman prior to rig move.	Sorbent material was used to capture standing liquids. Heavy equipment was used to recover contaminated gravel.	Oily absorbents were taken to an oily waste dumpster. The contaminated gravel was taken to Pad-3.	Verbal notification was made on 5-1-05 at approxamately 8:00 AM Original spill estimate was 60 gallons. After clean up and repairs were made only 25 gallons was needed to refill the hydraulic reservoir.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/22/04	2004-IR-1023872	Oxbow Road, Oxbow road between DS-15 and DS-14, Non Process Area	Crude Oil	25.00	At approximately 6:50 pm ACS representative on duty received a call from security about a possible spill on the road from the DS-15 turn off to FS-3. Upon inspection of the area by the DS-15 turn off the ACS representative noticed what looked like a spray of crude oil down the right side of the road. He followed the intermittent trail all the way past DS-14 where it began to disappear. It looked as though it may have come from a vac truck but there was no way to be absolutely sure.	Weed burners were used to burn some of the heavy areas on the chip seal and a road sweeper was used to sweep up the speckled gravel. The material was then picked up with a bobcat and placed in to a dump truck for disposal.	The recovered material will go to Pad-3 for disposal storage and future remediation.	Approval for burning was obtained from ADEC prior to cleanup. Some of the spilled material was absorbed into the chip seal road surface and was unable to be recovered.
10/8/02	2002-IR-333464	Well Pad J, J-27	Methanol	25.00	Two workers from the DHD crew were performing a down-hole pressure test on J-27. They were using a triplex pump with methanol to perform the test. A needle valve on the pumps discharge manifold was partially open during the test. This valve is used to bleed the pressure to the sump and was attached to a drain hose that ran into the sump. As the pressure test was being conducted the sump filled with enough methanol to come in contact with the radiator-cooling fan. The fan sprayed methanol throughout the inside of the triplex pump housing and the material ran out the door seams, covering an area of approximately 120 square feet on the pad. According to the employee statements the triplex was sitting with the front of the trailer lower than the rear. This would allow the fluid to get deeper, within the sump near the rotating fan, before the pump operator notices it.	All of the contaminated gravel was removed using heavy equipment and handtools. The snow and gravel was then placed in 55 gallon drums for offsite disposal.	Material will be sent offsite to an approved waste disposal facility.	Spill was intially reported as 1/2 gallon and upon further investigation it was determined to be approximately 5 gallons.
3/21/01	2001-IR-101060	CPS Pad	Lube Oil	25.00	At approximately 10:35 AM, 3/21/01, materials expediter was making a delivery of four plastic, 55-gallon drums of Turbo-32 oil to skid 117, CPS. The vehicle was a 1-ton flatbed with side rails. The drums were banded together and on a standard wood pallet. The drums were properly strapped to the vehicle bed for transport to CPS. Expediter stopped, removed the tie-down strap and then discovered that he was at the wrong delivery location. He then commenced to move the vehicle to find the proper delivery location. Upon movement, snow approximaterly 12" deep was encountered which caused the vehicle to stop quickly. the unstrapped drums tipped foward in spite of the two metal bands. Two of the bungs were forced from the plastic drums when the drums fell into the bed of the truck. The driver and one other righted the drums. Approximately 20-gallons of Turbo-32 was spilled into the truck bed and onto the heavy snow. Spill Response (5700) was called immediately. The product was confined and did not penetrate the snow to the pad. Cleanup was completed within an hour.	All of the contaminated snow was shoveled up off the pad and placed in oily waste bags. The truck was wiped down with absrobent pads then taken to a wash bay for final decon.	Contaminated snow will be taken to Pad-3 for disposal. Contaminated absorbent pads will be taken to an approved oily waste dumpster. Wash water in sump will be taken to Pad-3.	This information is being provided to ADEC to fulfill the spill notification requirements under 18 ACC 75.300.
11/12/01	2001-IR-133823	Well Pad W	Hydraulic Fluid	25.00	On 11/12/01 at 06:30 hrs, a wireline unit had a hydraulic oil (0-W30) spill. During normal wireline operations on W-42, a low-pressure return hose that routes from the power pak to the supply tank came loose. Hydraulic oil (0-W30) from the supply tank spilled 23 gallons into the unit and 2 gallons leaked onto the well pad. The crew responded immediately to contain the fluid and call BP reps and SRT. All fluid and contaminated snow was recovered and properly disposed. An investigation concluded that incompatible low-pressure hose and high-pressure fittings contributed to the hose failure. There were no injuries or damage to the tundra.	Clean up was done with hand shovels and chipping bar.	The material was taken to Pad 3 disposal facility.	Crew on site clean up area and put containment liners down to continue to catch dripping areas.
2/5/03	2003-IR-430049	GC-3 LPS Section, GC-3 underneath SK-494	Sewage	25.00	While picking up sewage from SK-494 envirovac the sewage truck operator noticed the sewage leaking from the drain line and onto the pad. Aproximately 10 gallons of the sewage is in a lined area, 15 gallons outside containment. Cause was determined to be a cracked elbow in the sewage drain line.	Frozen sewage has been removed using heavy equipment and jackhammers. Contaminated material loaded into dump truck for transportation to an approved disposal site.	Contaminated material has been transported to the T-pad solid waste storage facility.	Covered spill area with disinfectant solution, post clean up.
1/2/07	2007-IR-2107710	Main Construction Camp (MCC), MCC EAST CAMP SUMP TANK, Non Process Area	Sewage	25.00	Around 0900 hrs the sump pump for the E-3 restrooms started cycling on and off and was manually turned on until you could no longer hear it pumping anything. This continued for the next couple hours as the plumber and electricians were busy in the kitchen with the pot washer job. Around 1100 hrs, the plumber opened the sump and saw a separated pipe. At 12:30 he was done with the repair of the pipe and reported that since there was no sewage in the sump box that it was probably on the ground. At that point I called SRT. I reported it as a 50 gallon spill but SRT estimated it at 20-25 gallons and are now cleaning it up.	Hot water will be used to melt the sewage, and will then be sucked up by vac truck.	Fluids will be disposed at the Pad 3 waste injection facility.	Agencies were notified of release.
1/20/06	2006-IR-1697359	Drill Site 11, DS-11 WELL 11 SWI PIPING., FS2/COTU	Seawater	25.00	DURING A ROUTINE CHECK, THE OPERATOR FOUND A LARGE PIECE OF ICE ON 11-10 SWI INJECTION LINE, WHICH INDICATED A LEAK. THE OPERATOR IMMEDIATELY NOTIFIED SRT AND SHUT THE WELL IN. OPERATOR BLINDED WELL SLOT AND THE TREE. IN ADDITION, THE LIQUID WAS DE-INVENTORIED OUT OF THE FLOW LINE.	Seawater ice formation was removed with hand tools.	Seawater ice was brought to G&I for disposal.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/30/06	2006-IR-1815529	Central Compressor Plant, CCP pad, CGF/CCP	Diesel	25.00	The CUI crew requested the use of a Terex 55 Ton crane which they planed to use on the L1-L2 line project. The crane was rented from Airport Rentals through Central Dispatch and used on the job. When they were done using the crane it was staged at CCP. The CUI Foreman released the crane to (x 5049) Central Dispatch on 4/29/06 at 8:30am. On the morning of 4/30/06 the Fueler found the crane out of fuel and called the VECO Drilling Dispatcher. The Dispatcher called the VECO Shop Foreman who dispatched a VECO mechanic to go start the crane. The mechanic went out to the crane and primed the fuel system with diesel and attempted to start the engine. This attempt was not successful so he returned to the shop and the Fleet Shop was contacted and they dispatched two mechanics to start the crane. The mechanics reported that they bled the system by opening the bleed above the secondary engine filter and that they also loosened four of injectors to purge the fuel system of air. They were successful at starting the engine and left the area. As they were leaving one of the mechanics questioned weather or not he had closed the bleed port so he returned to verify if it had been done. It was in fact closed and the site was secure. On the afternoon of 4/30/06 at approximately 4:30 pm the CUI Foreman drove past the crane as it was still staged at CCP. A VECO crane operator that was on site to run another crane informed the CUI Foreman that the Airport Rentals crane had a diesel leak. The leak was reported to 5104 and subsequent required notifications were made. The Fleet Shop sent a night mechanic out at the beginning of night shift on the 30th to find the source of the spill. The crane had been shut down and the mechanic began wiping down the filters to look for fresh diesel. On the bottom of the secondary filter he noticed a small dent which was rusted. The filter dribbled diesel out of a small pinhole that had developed in the rust area. The mechanic tried to remove the filter by hand but it was too tight and in an awkward position to get to. He had to use a filter wrench to remove the filter and in the process the side of the filter developed a vertical crack about 1 ½ to 2¿. He replaced the filter bled the system and started the engine. FINDINGS: ¿ The source of the spill was from the secondary fuel filter. ¿ The Fleet mechanics did not notice any leaks while working to start the engine. ¿ The Fleet mechanics did not remove any filters but bled the system through a bleed port above the filter and at the injectors.	Hand tools were used to recover the contaminated snow. The contaminated gravel was recovered using a bobcat trimmer and bucket.	The contaminated snow will be melted down and sent in for hydrocarbon recycle. The contaminaed gravel was sent to Pad-3 West pit.	
9/21/04	2004-IR-1063388	Seawater Injection Plant, SIP Loading facility, FS1/SIP/STP	Seawater	25.00	Peak vac truck driver started loading sea water at SIP for transport to Doyon 16 on S pad, and failed to secure all valves and fittings on tanker. 25 gallons of sea water leaked from open valve onto gravel pad.	Contaminated gravel was removed with a bobcat and placed into a dumpbox for disposal.	Contaminated gravel was taken to Pad-3 for disposal.	
9/3/07	2007-IR-2392002	Main Construction Camp (MCC), 4" supply connection to AHU-2102 in module MCC-4921, Non Process Area	MEG	25.00	At approx. 10:15 am a coupling gasket failed on the 4" glycol supply line for Air Handling Unit AHU-2102 in MCC module 4921 releasing approx. 25 gallons of glycol in the utilidor and onto the gravel pad below. Maintenance shut down the supply line and drained the remaining glycol. A new gasket has been installed, system pressure checked and returned to service. Environmental was notified immediately upon discovery of the leak and clean up has begun.	Hand tools, and absobents were used to remove contaminated gravel.	Material will be brought to Pad 3 for disposal.	
8/16/02	2002-IR-290707	Lisburne Production Center, LPC Pad	Hydraulic Fluid	25.00	Loader # 52-231 was moving material at the Lisburne Production Center. During operations the cooling fan hub broke loose causing damage to the radiator and hydraulic motor resulting in spills of glycol coolant and hydraulic oil. The loader was shut down and transported to the heavy duty fleet shop for repair. Notifications were made to SRT, Peak Project Manager, Security and Peak Safety.	Loadre and Dump box were used to remove material.	Material was brought to T pad for disposal.	
4/9/05	2005-IR-1318837	Oxbow Road, Oxbow Road, ~200 meters North of its intersection with the Spine Road., Non Process Area	Hydraulic Fluid	25.00	A hose end failed on a dead-ended hydraulic line and allowed 25 gallons of hydraulic fluid to spray out onto the rear road wheels of Doyon Rig 16 and onto the roadway. The rig was being moved to a new location, traveling at about 1-2 MPH, when the hose failure ocurred. SRT and Wells Group management was notified immediately. The roadway was cleaned and the damaged hose was replaced in 4 hours, allowing the rig to complete the move to Drillsite 14, #20 by 0330 hours.	SRT personnel used absorbent material to clean up roadway and rig personnel used absorbent rolls to wipe down rig components.Floor dry applied to road and swept up.	Oily waste containers.	
4/16/05	2005-IR-1352314	Well Pad, Roads, FS-1 to DS-2 WD Road, Non Process Area	Diesel	25.00	Unknown Spill			

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/6/94	1994-IR-86327	Well Pad C	Diesel	25.00	CTU-conveyed perforating - new technique. After perfing, pulled out guns. A sleeve covering circ ports, open when on bottom, somehow closed. Caused trapped pressure in coil (~50 psi). When tools broke apart, diesel sprayed out into wellhouse (25 gal.)		Sorbants were put in oily waste bags inside the NSB oily waste dumpster. Contaminated gravel was taken to Pad 3 for disposal.	After one of the perforation jobs on C-33 was completed they were pulling the perforation gun out of the well. Some metal shavings from the well fouled the mechanism in the coil tubing. This trapped pressure in the coil. When the tools were being remov
10/4/93	1993-IR-89868	Drill Site 02	Drilling Mud	25.00	A valve was left open and the mud line was blown down allowing the mud to go through the Kelley into the well cellar. The barrier liner under the rig mat had a tear in it, allowing the mud to seep onto the pad.		All material was taken to the Ball Mill injection facility for normal disposal of drilling muds.	A valve was left open and the mud line was blown down allowing the mud to go through the Kelley into the well cellar. The barrier liner under the rig mat had a tear in it, allowing the mud to seep onto the pad.
12/15/94	1994-IR-85973	Spine Road	Diesel	25.00	The driver approached spine road from M-Pad access Road after being released from PE'S. He was making a left turn with his tractor/trailer running at about 25-30 MPH. He hit his brakes hard and jack knifed his truck on spine road cutting off all traffic. Trailer landing gear puctured a 4 in. square hole in the driver side fuel tank spilling about 25 gallons of diesel. Driver works a 3/3 schedule and this was his first day back at work. ERT and SRT responded and the spill was cleaned up safely. Note: A similar accident occurred January 1, 1985, involving a van transporting employees to work. It resulted in five fatalities and three injuries.		The contaminated gravel was taken to Arco Pad 3. Sorbents were placed in NSB oily waste dumpster.	A BJ Service acid tanker jack-knifed at the intersection of Spine Road and M Pad Access Road. The fuel tank on the tractor was punctured causing approximately 25 gallons of diesel to spill onto the road.
4/16/98	1998-IR-90589	Well Pad N	Crude Oil	25.00	N-Pad was planning to do some project work that was to be sheltered by the GC-2 slowdown for the slug-catcher work. Safeout was started at the GC on 4/15/98, 14 hours ahead of schedule. This did not allow the well pad to to de-inventory the flow lines and manifold piping to the GC as is normally done. As a result, the well pad was required to bleed flow line pressure down at the manifold module to allow swinging of a blind in Mod. 450 at GC-2. Because of pressurisation problems resulting from leaking valves in the HP flow lines at Skid 8, all SSVs were closed on the Pad and additional valves were closed at the GC on the HP flow lines. The wing valves were closed on the wells after approx. 7 hours. The tree cap pressure gauges were then removed and a bleed was established. At this time, ther was an estimated 40 to 60 psig on the "S" riser side of the wing valve. At approx. 2230 hours, it was discovered that there had been a discharge of liquid in to the well houses on N-09 (2 gal. approx.) and N-18 (25 gal. approx.). The source of the spill pressure is most likely from the HP header.		Material has been taken to Pad 3 for disposal.	During shut-in of N pad for maintenance work at GC-2, pressure built up causing approximately 25 gallons of crude to spray out the top of the tree at the swab cap at N-18.
4/29/00	2000-IR-100606	Lisburne Production Center	Crude Oil	25.00	High level switch on lp flare knock out drum failed. This should have started a pump and directed back to process. Level built to high high switch and directed to pit.	"Due to safety concerns with the stability of the frozen ice to reach the spill area, clean up options are being reviewed. A boom will be placed around the spill to keep the material from spreading. Using hand tools and a vac truck, the product was rec	2 cubic yard of gravel was disposed of at G&I and 144 BBls of flare pit water was disposed of at Pad 3.	High level switch on lp flare knock out drum failed. This should have started a pump and directed back to process. Level built to high high switch and directed to pit.
8/15/95	1995-IR-98522	Drill Site 06	Crude Oil	25.00	"Crude oil sprayed from an elevated common line onto water, gravel, and tundra beneath. External corrosion on the line has been determined to be the cause."	"The line was shut down and depressurized immediately. The contaminated area was isolated with visqueen and sandbags. Standing liquid was vacced up, and sorbents were placed to soak up residual fluids. Contaminated gravel and tundra were washed with m		"Crude oil sprayed from an elevated common line onto water, gravel, and tundra beneath. External corrosion on the line has been determined to be the cause."
6/3/97	1997-IR-100655	Point MacIntyre	Seawater	25.00	An O-ring failed on a pig detection signaling device on a seawater injection line causing seawater to release onto the tundra area underneath the line.	"No cleanup actions were necessary, based on ADEC?s approval, due to potential damage that may occur to the tundra with cleanup equipment. See additional info below. - None required."		An O-ring failed on a pig detection signaling device on a seawater injection line causing seawater to release onto the tundra area underneath the line.
4/24/92	1992-IR-87263	Well Pad C	Methanol	25.00	Possible gas migration from coil, displacing methanol out of coil sump on the unit. Sump leaked approximately 25 gallons of methanol to the gravel pad. The 966 loader and end dump were used to scrape up contaminated material. Contaminated snow was taken to snow melter at A3W2. The remedial action was to alert personnel involved to monitor the transfering of fluids closer or increase the volume of methanol being transferred.		Contaminated snow was taken to snow melter at A3/W2.	Possible gas migration from coil, displacing methanol out of coil sump on the unit. Sump leaked approximately 25 gals of methanol to the gravel pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/20/92	1992-IR-86666	BOC Pad	Diesel	25.00	A rock struck the fuel line on a bus making a run from the airport breaking a fitting. Diesel fuel leaked where the bus was parked. A 966 and shovels were used to load the material into the dump truck for removal from the site. Contaminated materials taken to A3W2 melt tank to be flushed with hot water and soap for cleaning. It will be looked into if a guard can be made to cover the fitting to prevent this from happening again.		Contaminated materials taken to A3/W2 melt tank to be flushed with hot water and soap for cleaning.	A rock struck the fuel line on a bus making run from the airport, breaking a fitting. Diesel fuel leaked where the bus was parked.
7/5/92	1992-IR-91063	Well Pad R	Drilling Mud	25.00	Truck ran off the road and overturned on the flowline causing discharge of contaminants through the inspection hatch of the truck. All contaminants were picked up with a super sucker truck and taken to CC-2 Ball Mill for down hole disposal.		All contaminants hauled to CC-2 Ball Mill for down hold disposal.	Truck ran off the road and overturned on the flowline causing discharge of contaminants through the inspection hatch of the truck.
3/5/94	1994-IR-88612	Well Pad C	Seawater	25.00	Y Driver was instructed to load two-compartment tank with seawater. Y No upper fill valve/line in tank. Y Only way to fill tank was by tying hose off on ladder as was done (lower valve was frozen). Y Driver started filling tiger tank and shut down to check tiger tank after 130 bbls were pumped. Y Driver checked tank, found to be okay. When driver opened vac truck valve, hose jumped out of tank. Pressure had built to 12 psi. Y Hose sprayed 25 gal of seawater onto pad.		Contaminated material will be taken to Pad-3.	Operator was pumping sea water into a open top tank when his hose came out of the opening and spilled the seawater.
8/26/93	1993-IR-98022	Drill Site 15	Methanol	25.00	Material leaked from a seal on lift line as it was pumped into line to thaw hydrate plug.	A bobcat and loader were used to remove the contaminated gravel. Absorbents were used to soak up excess fluids. Cleanup is considered to be 100% complete. - The contaminated material was disposed of at the Pad 3 West Temporary Pit on 8/27/93 to be held		Material leaked from a seal on lift line as it was pumped into line to thaw hydrate plug.
8/22/92	1992-IR-97765	Drill Site 12	Seawater	25.00	"While open seawater line was being replaced, the line leaked material onto the tundra."	Metis/Cleanup		"While open seawater line was being replaced, the line leaked material onto the tundra."
3/26/92	1992-IR-97878	Sag River	Diesel	25.00	Fuel Truck went off side of gravel embankment off the Sag River Bridge.	Metis/Cleanup		Fuel Truck went off side of gravel embankment off the Sag River Bridge.
2/6/93	1993-IR-97409	Drill Site 09	Diesel	25.00	Mobile heater discharged material due to winds extinguishing burner.	Metis/Cleanup		Mobile heater discharged material due to winds extinguishing burner.
1/10/94	1994-IR-100857	Point MacIntyre	Diesel	25.00	Released from fuel tank on snowblower when a loader backed into it.	A loader was used to remove the contaminated snow and gravel. Cleanup is 100% complete. - The contaminated snow will be melted and reused as freeze protect. The gravel is being washed and will be reused.		Released from fuel tank on snowblower when a loader backed into it.
3/14/93	1993-IR-98140	Drill Site 02	Seawater	25.00	Reeased from pressure reief valve & overfilled pop off drum.	Metis/Cleanup		Reeased from pressure reief valve & overfilled pop off drum.
1/25/90	1990-IR-100743		Seawater	25.00	Ice plug became dislodged and blew hose out of top of tanker	YES -		Ice plug became dislodged and blew hose out of top of tanker
2/21/92	1992-IR-97828	Drill Site 13	Crude Oil	25.00	Valve on Frac tank was damaged during offloading.	YES -		Valve on Frac tank was damaged during offloading.
10/12/99	1999-IR-94313	GC-3 Pad	MEG	25.00	Skid-41 utility heating glycol system had been shutdown and partially drained to perform maintenance work. During refilling of the system to return to service, pressure from the expansion tank backed through the pump and suction line into the already full storage tank. This caused the storage tank to blow glycol out the atmospheric vent. Note, this tank has a buried liner. But with the high wind conditions at the time of this event, glycol was carried outside the lined area and onto the pad. Estimated amount is 20 gallons.		Non-hazardous clean up material was taken to Pad 3 for disposal.	The incident was reviewed with all GC3 operators.
4/10/91	1991-IR-97220	Pad 3	Seawater	25.00	Sprayed from a tanker vent while purging hose.	YES -		Sprayed from a tanker vent while purging hose.
5/6/93	1993-IR-100886	Point MacIntyre	MEG	25.00	Hose failure during hydro-test on pad piping.	Metis/Cleanup		Hose failure during hydro-test on pad piping.
8/18/93	1993-IR-98017	C Pad	Sewage	25.00	Operator left valve open on a vacuum truck.	Metis/Cleanup		Operator left valve open on a vacuum truck.
9/26/90	1990-IR-97116	Seawater Injection Plant	Seawater	25.00	Material expelled when a valve was opened.	YES -		Material expelled when a valve was opened.
5/18/92	1992-IR-90866	Drill Site 11	Crude Oil	25.00	Surge allowed oil mist to vent from rig.		Used sorbents placed in dumpster for NSB incineration.	Surge allowed oil mist to vent from rig.
9/8/91	1991-IR-97544	Central Gas Facility	MEG	25.00	Ruptured heat trace line connection.	YES -		Ruptured heat trace line connection.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/20/90	1990-IR-97181	Drill Site 09	Seawater	25.00	Wind blew onto side of cuttings box.	YES -		Wind blew onto side of cuttings box.
1/14/90	1990-IR-96990	Drill Site 11	Methanol	25.00	Rubber gasket on suction hose leaked	YES -		Rubber gasket on suction hose leaked
10/21/90	1990-IR-97148	Drill Site 11	Diesel	25.00	Left valve open after use.	YES -		Left valve open after use.
3/8/91	1991-IR-97647	Central Gas Facility	MEG	25.00	MUA heater coil ruptured.	YES -		MUA heater coil ruptured.
3/23/91	1991-IR-97663	Drill Site 03	Diesel	25.00	Overfilled tank.	YES -		Overfilled tank.
12/12/89	1989-IR-96875	Drill Site 11, Not specified	Diesel	25.00	Contractor spilled diesel while transfering it from ARCO tanker.	Not specified	Not specified	Not specified
12/3/89	1989-IR-96864	U-21 (EOA Building), Not specified	Diesel	25.00	Fuel truck leaking: internal valve found open.	Not specified	Not specified	Not specified
8/14/89	1989-IR-96752	Drill Site 17, Not specified	Diesel	25.00	Gas sprayed material out of tank vent.	Not specified	Not specified	Not specified
5/31/86	1986-IR-100684	Not specified	Crude Oil	25.00	Drum fell whn melte	Not specified	Not specified	Not specified
11/26/79	1979-IR-96016	COTU Facility, Not specified	Diesel	25.00	Truck gasket failur	Not specified	Not specified	Not specified
2/8/89	1989-IR-96821	Drill Site 07, Not specified	Crude Oil	25.00	Mist carryover wind	Not specified	Not specified	Not specified
4/7/82	1982-IR-96103	Central Compressor Plant, Not specified	Lube Oil	25.00	Added too much oil	Not specified	Not specified	Not specified
12/12/82	1982-IR-96097	Drill Site 14, Not specified	Crude Oil	25.00	Wrong valve opened	Not specified	Not specified	Not specified
9/19/83	1983-IR-96129	West Dock, Not specified	Diesel	25.00	Filled incorrectly	Not specified	Not specified	Not specified
1/14/89	1989-IR-100797	Not specified	Crude Oil	25.00	Hatch not latched	Not specified	Not specified	Not specified
6/16/82	1982-IR-96084	COTU Facility, Not specified	Diesel	25.00	Overflowed tanks	Not specified	Not specified	Not specified
12/11/87	1987-IR-96389	Drill Site 02, Not specified	Crude Oil	25.00	Meter read wrong	Not specified	Not specified	Not specified
12/17/88	1988-IR-96578	COTU Facility, Not specified	Diesel	25.00	Tank overflowed	Not specified	Not specified	Not specified
10/20/85	1985-IR-100678	Not specified	Crude Oil	25.00	Hose leak	Not specified	Not specified	Not specified
4/23/00	2000-IR-94903	Drill Site 11	Fresh Water	25.00	Dowell was recieving fresh water/brine from the rig charge pump to their cement van using a 150 psi hose. The rig charge pump pressure is 60 psi. The hose burst in the middle releasing 40 gallons fluid in containment, 25 gallons sprayed onto the pad. The fluid mixture was analized to contain 90% water, 10% brine by chlorides. The burst occured while switching valves from fresh water to brine. The rupture was seen immediately and the operation shut down. The rig crew immediately cleaned up the spill.	The fluids were vaced up.	The recovered fluids were returned to rig tank for recycle.	
6/15/99	1999-IR-94037	GC-3 Pad	MEG	25.00	During the Rover's operating rounds, he noticed a MEG leak from the heat trace tubing in a pipe rack between skids 19 and 22.	A Peak Vac-truck was used to suck up all standing liquids. A loader and hand tools were used to clean up affected gravel.	All materials were taken to ARCO pad 3 for disposal.	
12/30/00	2000-IR-95800	Well Pad S	Drilling Mud	25.00	DURING NORMAL DRILLING OPERATIONS THE CUTTINGS TANK FILLED UP AND NO SUPER SUCKER WAS AVAILABLE ON LOCATION. DRILLING WAS IMMEDIATELY STOPPED BUT THE DRAG CHAIN CONTINUED PULLING CUTTINGS DOWN THE TROUGH TO THE CUTTINGS TANK CAUSING IT TO OVERFLOW. 25 GAL OF MUD OVERFLOWED ONTO THE GRATING WALK ON TOP OF THE SECONDARY CONTAINMENT. THE GRATING WAS PLUGGED WITH ICE AND SNOW CAUSING THE MUD TO RUN ONTO THE GROUND.	Rig crew immediately cleaned up material and placed in bags until tank could be sucked down.	Material was placed back into cuttings tank.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/23/05	2005-IR-1380699	Spine Road, Spine road GC-2 to VMS, Non Process Area	Hydraulic Fluid	23.00	A 980 loader #52-307 experienced a hydraulic hose failure (hose from brake accumulator to test port) and spilled 23 gallons of hydraulic oil onto the road between GC-2 to VMS. SRT was notified.	Loaders, supersuckers and vac trucks were used to clean affected gravel and snow.	The affected gravel was taken to Pad 3 disposal facility and the contaminated snow was taken to T-pad storage facility.	Another 980 loader of the same model was inspected and found to have the same problem. Both loaders were repaired to avoid a simlar occurrence.
2/5/07	2007-IR-2145891	Well Pad W, At Kuparuk 22-11-12 well cellar, GC2/SAT	Arctic Pac	22.00	A 22 gal Artic Pac spill resulted from leaking Outer Annulus Casing Valve flange. LRS was circulating 120 deg F brine to load well for well abandonment project. The Outer Annulus pressured up from thermal effects from hot brine and exerted pressure on casing valve annulus flange resulting in spill. On further investigation the grease crew determined that the annulus valve flange nuts were loose. The nuts were tightened and the operation continued without further leakage. SRT was notified right after intial leak and remediated site.	Removed Artic-pac and contaminated snow in well cellar by shovelling into oily waste bags.The wellhead,cellar wall,and scaffold boards were wiped down with rags.All other contaminated debris in the cellar was removed and placed in oily waste bags.	The contaminated material was taken to DS-4, Grind & Inject facility. All contaminated rags and debris were bagged and taken to WOA Solid Waste facility, oily waste dumpster.	None.
6/28/05	2005-IR-1432697	GC-1, GC-1 Skid 318, GC1	Lube Oil	22.00	Lube oil drum was stored in a containment liner on a platform landing out side skid 318. Residue fluids were sprayed onto ground by blowing winds.	The liquid in the containment was placed in a bleed trailer by facility personnel. The contaminated gravel was removed by Spill Technicians with a loader and hand tools.	Liquids were placed in bleed trailer to be taken for recycle. Contaminated gravel will be taken to Pad-3 for disposal.	
9/19/04	2004-IR-1058429	Spine Road, Non Process Area	Hydraulic Fluid	22.00	During the rig move from S pad to DS2 Nordic experienced a failure of the 4000 psi hydraulic hose to the drive motor on the right hand set of drive wheels. Twenty two gallons of hydraulic oil was released and spill on to the road surface. The rig move was halted. Notification made and spill cleaned up.	Sorbents were used to remove any liquids and absorbent material (floor dry) was put down and swept up to remove any additional material.	All the material was taken to an approved NSB oily waste dumpster.	
8/21/89	1989-IR-96756	Drill Site 12, Not specified	Produced Water	22.00	Produced water overflowed receiving tanks during pigging	Not specified	Not specified	Not specified
6/26/88	1988-IR-96443	Drill Site 02, Not specified	Seawater	22.00	O-ring fault	Not specified	Not specified	Not specified
1/3/89	1989-IR-96284	Drill Site 09, Not specified	Crude Oil	22.00	Faulty seal	Not specified	Not specified	Not specified
5/27/02	2002-IR-230275	GC-1 LPS Section, GC-1 Skid 450	Crude Oil	21.00	Approximately 0930 5/27/02, the scaffold crew notify SK-7 of an oil spill underneath Sk-450. The Lead and Rover did an assessment inside and outside of SK-450. Inform PCC to start depressuring Y-Pad LDF. The spill was immediatley reported as a Non- Emergency. After the line was depressure, BP Safety and ACS did a site assessment. The spill was cleaned up by ACS techs. CIC was called to do a inspection and following the removal of insulation the failed location was found to be a 4" WOL that was visually identified to have a 2" crack between the fillet weld and 24" LDF.	Liquid released to containment was recovered with a vac truck. Contaminated lines and floor was wiped clean with rags and absorbent. Contaminated gravel was cleaned up using loader and hand tools.	Gravel has been taken to T-Pad storage pit, liquids have been taken Pad-3 and contaminated absorbent have been taken to approved disposal facility.	This spill was not reported until 17:00 because there was gas venting in the building. The volume was unkown until the ACS Techs assessed the area.
4/17/02	2002-IR-204720	Well Pad H, H-21	Crude Oil	21.00	Subsequent to a GC-2 shut down from a loss of power, the SDV valve on H-Pad also closed as designed. As a result of this valve closing, the individual wells continue to build until they reach their maximum shut-in tubing pressure. Well H-21's flowline ruptured at the 6" elbow located just downstream of the tree's wing valve after being shut in for approximately 20 minutes. According to the pressure data logging in SCADA, the flowline reached a pressure of near 2500 psi before failing.	The contaminated snow was removed using heavy equipment and hand shovel crews with snowmachines. The well house was dismantled and taken to a wash bay for decon then it will be sent out for metal recyle. Affected pipelines and well houses were hand wiped with rags and absorbent.	All of the contaminated snow was hauled to T-Pad storage pit where it is being melted down. Once it is melted it will be taken to Pad-3 for disposal. All of the rags and absorbents were placed in an approved oily waste dumpster.	Written permission from ADEC has been given to leave lightly misted area in reserve pits for the spring dewatering season.
10/30/94	1994-IR-86371	Well Pad Y	Methanol	21.00	Purging fluid from coil tubing with nitrogen, preparing to change out coil tubing spool. Sending purged fluids down flowline. Opened valve on hose to methanol trailer slightly to check purging operations and got nitrogen with no fluid. Continued to bleed nitrogen pressure down flowline. Opened valve slightly a second time to check, and a slug of fluid hit, causing fluid to splash out of trailer. See attached incident report for more details.		Contaminated snow & gravel was taken to Santa Fe Pad - A3/W2 warehouse - to be melted and washed. The fluids will be reused.	After a Coil Tubing job on Y-11 was completed, the crew purged the tubing with Nitrogen. They had checked the tubing once and there was still Nitrogen in it, so they continued to purge. Upon checking the check valve a second time, Nitrogen came out foll
1/18/93	1993-IR-97990	Drill Site 03	Produced Water	21.00	"Due to extreme cold temp, the steam from the material being transferred made the gauge levels unreadable."	Metis/Cleanup		"Due to extreme cold temp, the steam from the material being transferred made the gauge levels unreadable."
7/20/91	1991-IR-97501	Drill Site 07	Seawater	21.00	Discharge hose ruptured during frac procedure.	YES -		Discharge hose ruptured during frac procedure.
9/17/91	1991-IR-97546	Drill Site 09	Crude Oil	21.00	Splashed out of open hatch of tiger tank.	YES -		Splashed out of open hatch of tiger tank.
11/7/90	1990-IR-97165	Drill Site 02	Seawater	21.00	Sprayed from hole in steam coil.	YES -		Sprayed from hole in steam coil.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/24/91	1991-IR-97325	Drill Site 01	Seawater	21.00	Leak in a SWI line flange.	YES -		Leak in a SWI line flange.
8/29/92	1992-IR-97771	Drill Site 14	Diesel	21.00	Cause and source unknown.	Metis/Cleanup		Cause and source unknown.
10/20/90	1990-IR-97145	Seawater Injection Plant	Seawater	21.00	Splashed out vent line.	YES -		Splashed out vent line.
4/23/84	1984-IR-96138	Drill Site 06, Not specified	Crude Oil	21.00	Needle valve failur	Not specified	Not specified	Not specified
6/17/87	1987-IR-96220	Drill Site 13, Not specified	Crude Oil	21.00	Pump valve left ope	Not specified	Not specified	Not specified
9/8/84	1984-IR-96147	Drill Site 17, Not specified	Crude Oil	21.00	Sump vessel relieve	Not specified	Not specified	Not specified
9/15/85	1985-IR-95932	Pad 3, Not specified	Crude Oil	21.00	Ball valve failure	Not specified	Not specified	Not specified
6/12/80	1980-IR-96027	Drill Site 02, Not specified	Crude Oil	21.00	Oil mist	Not specified	Not specified	Not specified
6/12/80	1980-IR-96025	Drill Site 05, Not specified	Crude Oil	21.00	Oil mist	Not specified	Not specified	Not specified
6/7/03	2003-IR-533669	Drill Site 18, DS18-33 WELL CELLAR - Note that this is additional info on an event initially reported in Jun 2003., FS1/SIP/STP	Crude Oil	20.00	June 2003 - During routine rounds operator found oil in cellar of wellhouse and sheen in water puddle around outside of wellhouse. Cause was undetermined. June 2004 - Sept 2004 - Small volumes (less than one quart) of crude were identified in the well cellar in June, July, Aug and Sept of 2004. Although each independent event was not indicative of a reportable event, recurring events were indicative of a continued release. Reccurrences were reported to ADEC in Sept 2004.	Vac trucks were used to remove fluids from well cellar. Bobcat and dump box were used to remove contaminated gravel.	Contaminated fluids from the well cellar were disposed at Pad 3. Contaminated gravel was disposed at the DS 4 G&I facility.	Note that the initial report of 20 gal was submitted in June 2003. Additional info submitted in Sept 2004 is to report a continued release at this source. Each subsequent release in 2004 appeared to be less than 1 quart in volume and was confined to the well cellar. The majority of the gravel in the well cellar was removed in the spring of 2004 and was not replaced to facilitate monitoring / future clean up.
2/11/04	2004-IR-770611	PBOC, A Wing under PBOC, Non Process Area	Sewage	20.00	At 4:30 pm, maintenance was notified of a sewage smell in the restrooms in A wing at PBOC. Upon inspection, maintenance found that the sewage tank for that wing had overflowed. A small amount of gray water was found frozen outside the utilidor, under the building. Further inspection by maintenance crew found that the drain line away from the tank had frozen. The pumps to pressure line were functioning, but were unable to continue flow of sewage away from tank due to the frozen section of pipe. Pipe was thawed and maintenance is inspecting floats in the tank to find out why the high level alarm on the tank did not function.	The material was chipped up and placed into oily wate bags for disposal.	Most of the material will be taken to the waste water treatment plant and the material in contact with the ground will be taken to T-pad for disposal.	Immediate notifications were made. It was mentioned on the verble report that the sewage had been to tundra. Upon cleaning up the material, it was discovered that the spill had been on gravel and did not come into contact with the tundra.
3/18/02	2002-IR-185670	Well Pad F, F-15 wellhouse	Methanol	20.00	After a freeze protect job on the F-15 well line, the pump crew was disconnecting their hose from a 3/4" ball valve on the S-riser. When the hose was disconnected, the valve began leaking, spraying approximately 20 gallons of neat methanol in the wellhouse. The valve that leaked was a Jamesbury ball valve. It appeared that the seat adjustment nut was loose.	A super sucker has been used to collect the contaminetd gravel and transfer it to the Grind & Inject Facility.	All of the contaminted gravel has been classified as Class II Exempt and taken to Grind and Inject Facility.	Spoke with manufacturer's rep in L48 and he faxed the Company's IMO document which are enclosed in this IR. Line 2 of this report specifically explains the valve should be installed so the seat keeper is located in the upstream position.
12/25/03	2003-IR-725581	Drill Site 06, Drill Site #6, Well 21	Diesel	20.00	At DS#6 well #21 Fueler left fuel nozzle unattended while trying to restart heater. Nozzle fell out of heater spilling approximately 20 gallons of fuel onto pad. Loader bucket removed bulk of fuel/snow spilled. SRT notified.	loader bucket and open top tank were used to remove contaminated material.	Contaminated snow and ice was melted down and brought to GC-2 for Hydrocarbine recycle. Gravel in bottem of melting tank were brought to Pad 3 for disposal. Sorbents went to oily waste stream.	ATTN: Amanda Luffel, this is the final report for this spill. Any questions please feel free to call Thomas Cumming at 907-659-5800.
6/25/05	2005-IR-1429123	Communications Module, Gravel pad under GCI communuications module on PBOC pad, Non Process Area	Sewage	20.00	A restroom fixture in the PBOC communications module did not shut off after flushing and ran for several hours filling a holding tank in the module. The floats in the holding tank did not activate the sump pump which pmps the holdings to be processed. Tank overfilled which resulted in a ~20 gallon wastewater release to the gravel pad below the module.	Contaminated area will be limed to neutralize contaminated area. No gravel will be removed from the site for clean up purposes.	Contaminated gravel will be limed to neutralize area.	Note that another Traction IR has been entered for this event under the GBC/Non Stream Digital Business unit (see 2005-IR-1425885).

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/16/07	2007-IR-2304060	Pad 3, Pad 3, Non Process Area	Diesel	20.00	Unknown diesel spill discovered on 6/16 and reported by Pad 3 operator. The spill volume is estimated to be 20 gallons. SRT initiitiated cleanup and conducted investigation to determine responsible party. No responsible party identified, BPXA Environmental will ensure cleanup and disposal are completed.	Excavate contaminated gravel using an excavator and super sucker.	Contaminated gravel will be stored at Pad 3 pending thermal remediation.	NOTE: This is the Final Report. After ACWR was completed the excavation resumed and all contamnated material was removed.
3/18/01	2001-IR-101039	West Beach, West Beach State	Diesel	20.00	A Downhole Diagnostic employee had completed a State Mechanical Integrity Test of the inner annulus (IA). The employee was bleeding the well pressure of the IA down from 2500 psig. The employee bled the pressure down to 400 psi and stopped bleeding to check the level of fluids in the bleed tank. The employee discovered the tank level had reached the 80% mark that was indicated on the outside of the tank. The employee waited 30 minutes to allow the gas pressure to build up on top of the diesel in order to evacuate the 1/2 inch hose to the slop tank. The employee then cracked the needle valve and blew the remaining fluid out of the bleed hose for 45 to 60 seconds. When the employee walked to the slop tank to disconnect the hose he discovered that diesel had overflowed out of the tanks vent and onto the snow covered pad. The employee immediately shutdown his operation and notified the Well Ops. Supervision, Veco Management and the Environmental Department of the incident. A Spill Technician was dispatched to location to assess the spill area. The spill volume was estimated to be 2 gallons of diesel on the pad and 18 gallons of diesel was captured in the bleed tanks secondary containment. There were no injuries as a result of this incident and the fluid was never any threat to contaminating the tundra. A Spill Review Meeting was conducted to determine the circumstances surrounding this incident and to develop action items that would prevent the reoccurrance of such incidents in the future.	Used loader and hand tools to recover product and place into dump box for disposal	15 cu. yds of lightly contaminated snow taken to pad 3	Reported to Alaska State Trooper @ 1900 on 3/18/01. This information is being provided to ADEC per 18 AAC 75.300
10/16/07	2007-IR-2438962	Central Gas Facility, Module 4908 Hot Oil Heater manifold., CGF/CCP	Therminol	20.00	Power outage at the CGF caused plant upset. The hot oil system pressure was within normal range and being controlled by system PIC's. leak occured on heater 1402 in module 4908. PSV 340 ASV. The spill was reported to Non Em. Spill Hotline 5700 and Environmental Advisor.	Absorbant pads used to soak up fluid. Operations cleaned up spill and put absorbant in oily waste bags for disposal.	Contaminated sorbents sent to BP waste coordinator for proper disposal.	A call in to the non emergency hot line "5700" was made. SRT notified and environmental notified of spill.
6/18/06	2006-IR-1873198	GC-2, S-Pad Skid 57, GC2/SAT	Sewage	20.00	Sewage truck driver hooked up to an abandoned sewage drain line from the envirovac. Opened up the valve on the bottom of the holding tank inside and sewgae drained on the ground.	A Supersucker was used to remove contaminated gravel from pad.	Pad 3 disposal facility	The verbal notifications were made by the EOA environmental advisor on 6/18/06 at approximately 13:15
5/29/03	2003-IR-524547	GC-2 Pad, GC-2 outside skid 301 under vent line.	Crude Oil	20.00	While cleaning up a two quart produced water spill under a vent line outside skid 301 a larger area of oily gravel was observed and lead to further investigation. Environmental was called and the investigator found a spill estimated to be 20 gallons and it is assumed to have been discharged from the vent line at an earlier date. Clean up activities were initiated and materials were disposed of.	The free standing liquids were recovered using direct suction with a vacuum truck. Contaminated snow and gravel were recovered using a Supersucker.	Recovered liquids were manifested to Pad-3 for disposal and the contaminated snow and gravel were sent to the Grind and Inject facility.	Initial notification of this spill was sent to ADEC and ADNR at or about 12:30pm on May 29th, 2003.
3/12/02	2002-IR-183621	Spine Road, Spine road between DS #6 and DS #14.	Methanol	20.00	On 3/12/2002 at approximately 17:25 hours a trailer truck with a 22-barrel methanol trailer in tow left the surface of the Spine road and came to a stop on the snow covered tundra surface. The driver was in route from Pad 10 where he had picked up the methanol trailer that had been previously filled to 80% capacity, roughly 700 gallons of Neat Methanol. He was instructed by his foreman to deliver the methanol trailer, and 3 other pieces of equipment to drill site 6 for upcoming Coil Tubing work. The driver stated that he was negotiating a gentle left hand curve on the Spine road, and traveling approximately 25mph when suddenly the truck was not responding to his movements of the steering wheel. The driver took his foot off the gas, as he suspected that the truck was sliding on some icy spots on the road surface. He again attempted to steer the truck around the corner with no effect. At this point the truck and trailer left the road surface, and came to an abrupt halt. Both pieces of equipment remained upright, however the trailer was facing slightly down hill with a slight tilt to the right. This in conjunction with the methanol sloshing in the trailer caused methanol to leak out of the forward vent to the snow covered tundra surface. Investigation revealed that a component of the steering linkage had come apart resulting in loss of vehicle control. There were no injuries as a result of this incident, and the truck sustained no other damage. *NOTE: For further information see attached files.	Recovered material with backhoe and hand tools. Material was placed into open top tanks for beneficial reuse.	Recovered material will be beneficially re-used. Residual solids will be disposed of as hazwaste.	Immediate notifications made to the appropriate agencies. Initial report submitted on 3/13/02.
4/28/01	2001-IR-101312	West Dock Road	Hydraulic Fluid	20.00	Snow Blower #52-239/53-003, blew a hydraulic line on the snow blower unit and spilled approximately 20 gallons of hydraulic fluid on west dock roadway covered with snow/ice.	Sorbents were first layed down. Then the contaminated snow was recovered with a bobcat and put in the dump box.	Sorbents will go to the oily waste dumpster and 6 yards of contaminated snow was taken to pad-3	This information is being provided to ADEC per 18 ACC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/31/01	2001-IR-84217	Surfcoat Pad, Surfcoat Pad Well # 1	Diesel	20.00	The day fueler was fueling a Haliburton wireline unit on Surfcoat pad. The fueler staged his truck in front of the wireline unit and began the fueling process. The operator stated that after he had topped off the tank in the wireline unit he shut off the fuel nozzle, left the fuel nozzle in the tank of the wireline unit and went inside to talk to the crew. He did not shut the pump on the truck off. While talking the fueler and the crew witnessed diesel fuel flowing from the front of the wireline unit to the back. The fuel had overflowed from the fuel tank into the wireline unit. The fuel flow was stopped and containment dikes were placed under the unit. Absorb was used to help contain the fuel. Haliburton contacted Gary Hunt BP Wells Group HSE. Gary instructed the Haliburton crew to contact SRT, which they did. Gary contacted Peak Safety (Billy Petty). Peak safety contacted Dave Benedict - 106 Peak dispatch. Dave Benedict and Billy Petty proceeded to location. Dave Benedict contacted SRT and was told that they were aware of the incident and on their way to location. SRT arrived on location. Statements were taken from the Peak fueler and the Haliburton wireline crew. Jeff Lang Peak Project Manager met with Dave and Billy on location. Haliburton rigged down the wireline unit and moved it so that SRT could recover the spilled material. SRT estimated that the spilled material was 3 gallons of diesel fuel. Material was recovered and disposed of at Pad 3.	Used loader and dump box to remove contaminated gravel and sorbent to soak up standing fluids.	Contaminated gravel was taken to pad 3 and sorbent to oily waste dumpster.	This information is being provided to ADEC per 18 AAC 75.300
9/8/06	2006-IR-1973843	Main Construction Camp (MCC), MCC PAD NABORS RIG CAMP, Non Process Area	Sewage	20.00	AT 7:20 AM, THE BROOKS RIG CAMP MAINTENANCE TECH NOTICED WATER ON THE FLOOR OF THE TREATMENT PLANT. THE SUMP PUMPS HAD TRIPPED THEIR BREAKER AND WERE NOT PUMPING.WATER LEAKED THROUGH THE FLOOR INTO THE CONTAINMENT PIT UNDER THE PLANT. ONE CORNER OF THE PIT WAS LOWER THAN THE REST OF THE CONTAINMENT AREA AND THE WATER RAN TO THAT POINT IN THE PIT AND APPROIMATELY 20 GALLONS RAN OVER THE LIP OF THE LINER ONTO THE PAD. THE WATER IN THE PLANT WAS SHUT OFF TO STOP THE FLOW. THE SPILL HOTLINE WAS CALLED AT 7:30. ELECTRICIANS WERE CALLED IN AND THEY REPAIRED THE PROBLEM.	Lime will be spred on affected area.	None was needed. All fluid's in containment were sucked up and put back in to the waste water treatment plant.	ADEC Waste water NSPDES was notified of release.
3/17/02	2002-IR-185002	Drill Site 12, DS 12 PAD	Sewage	20.00	HAD SLOW LEAK IN LINE FROM CAMP LIFT STATION TO HOLDING TANK. LEAKED APPROX ? GALLONS OF WASTE WATER ON MATTING & PAD. LEAK DISCOVERED @ 1400 HRS 3-17-02. REPAIRED LEAK.	Material was removed with a loader, and Dump box.	Material was taken to pad 3 for disposal.	Immediate notification given to State Troopers.
11/6/02	2002-IR-358943	Drill Site 09, D.S. 9-28 (Inside Well House)	Crude Oil	20.00	A crew was called out to drill site 9 to freeze protect wells . After rigging up Hardline and placing spill containment under all connections on well 9-28 a succesfull pressure test to 3,500 psi was performed. After pumping approx. 1500 bbls. of crude to freeze protect numerous wells, from the 9-28 location, at an average rate of 4 bpm and average pressure of 1,600 psi , a hammer union on the discharge line began leaking. Job was immediately shut down and the union gasket was replaced. The pad operator & SRT were immediately notified. Spill amount was approximated at 20 gal. by SRT. Spill was within the well house. Upon inspection of the failed union the gasket was found to have been extracted from the seal groove due to the union becoming loose during the pumping activities. The crew replaced and the seal ring, inspected all other unions for tightness and resumed the frz protection activity.	Sorbents,and chemclear were used to wipe down wellhouse walls, and well tree. Contaminated gravel in well cellar, and around well house was removed with hand tools, Bobcat, and dump box.	Sorbents went to oily waste stream, solids were be brought to G&I for disposal.	This is the second,and Final report.
12/9/01	2001-IR-142403	Drill Site 02, Inside and outside of wellhouse on DS-2 well 13	Diesel	20.00	At approximately 13:00 hours on 12/9/2001 while conducting a Mechanical Integrity Test (MIT) on the Inner Annulus (I.A.) of well #13, at Drill site 2, a JIC type fitting failed under pressure. The technician began the test by pressuring the I.A. up to 3000 psi using a tri-plex pump and diesel. He then monitored the test for 30 minutes per procedure. After the test period, the technician recorded a pressure drop to 2500 psi. Per SOP, the employee began to retest the I.A. by raising the pressure back to 3000 psi. When the pressure reached 2950 psi the JIC type fitting, which is the connection point between the I.A. needle valve and the test manifold, failed at the swivel. This resulted in the test manifold blowing back under pressure and striking the employee in the upper hip area knocking him to the ground. The pressurized diesel in the I.A.then began spraying out of the failed fitting, and the tri-plex continued to pump diesel through the test manifold to the ground surface inside the wellhouse. Approximately 20 gallons of diesel was released from the I.A. and the tri-plex pump to the ground inside and outside the wellhouse. The technician got quickly to his feet, closed the needle valve on the I.A. and went out and shut down the tri-plex pump. He then reported the incident to his supervisor and other notifications were subsequently made. The technician was taken to the medical facility for evaluation where he was diagnosed with a contusion to his right hip. He was given OTC medication and released to return to work. The spill techs were dispatched to the scene and all contaminated material was removed. There were no other injuries as a result of this incident, and at no time was the released diesel in danger of reaching the tundra.	Loader, bobcat, dump box were used to remove contaminated material.	Contaminated material was brought to G&I for disposal.	Notified State Troopers of spill.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/24/07	2007-IR-2346322	Bulk Fuel Facility, WOA Bulk Fuel Facility, Non Process Area	Methanol	20.00	While unloading a methanol tanker the pump on the tanker developed a leak.	A bobcat was used to recover the contaminated gravel. The gravel was placed into a metal bin. The gravel was rinsed with water to recover the methanol and tested for flash point.	Recovered methanol will be used for freeze protection.	Immediate notification was made.
10/13/02	2002-IR-337542	Drill Site 11, DS 11 # 17	Calcium Chloride	20.00	Employee was off loading 280 BBLs of 1% KCL into upright tank. Employee had offloaded 270 BBLs when he noticed a leak of KCL dripping down the tank from behind the insulation. Employee immediately shutdown the offload operation and begin to Vac off the KCL he had just loaded. Employee notified dispatch and SRT was notified. Approximately 1/2 BBl of KCL spilled onto the pad.	Loader, dumpbox.	Material was brought to T-Pad for disposal.	Water mixture is 1% KCL.
10/14/02	2002-IR-339484	Well Pad L, L-108	Hydraulic Fluid	20.00	A 1/2" male pipe plug treaded into a hydraulic actuator barrel began leaking where the plug threads into the barrel. The plug was found torqued properly into the barrel. Teflon thread tape had been applied to the male plug, but could have lacked sufficient wraps to prevent the leak. Additionally, the threads on the pipe plug were found in good condition. This actuator barrel operates at 2000 psi and the fluid leaked was hydraulic oil.	All of the standing hydraulic oil was pumped into a drum to be recycled. The contaminated gravel was removed with shovels and hand tools. Well house walls and tree were wiped down with absorbent pads.	15 Gallons of hydraulic oil will be recycled. The contaminated gravel will be taken to T-Pad disposal pit. The contaminated absorbent pads have been taken to an approved NSB oily waste dumpster.	
6/12/02	2002-IR-242908	Well Pad S, S-21	Methanol	20.00	Pad Operator and Halliburton slickline crew found green liquid in well cellar before rigging up. Operator notified all appropiate personnel of the leak. It is unknown where the leak source came from at this point and further investigation is ongoing. The well has been shut in and freeze protected since 24SEP01.	The free standing liquids that were in the well cellar were pumped into bleed tank. All the contaminated gravel was removed with hand tools and heavy equipment.	All of the free standing liquids have been placed in bleed tank on site for disposal. All of the contaminated gravel has been taken to Grind & Inject for disposal.	
7/19/06	2006-IR-1912612	Well Pad C, C-19 Surface Safety Valve, GC3	Crude Oil	20.00	At 1630 hours on 7/19/06 while checking C-19 there was crude oil mist coming from the grease zert on the surface safety valve, I secured the well called 5700 and reported the spill and before the spill tech arrived the grease crew showed up replaced the O-Ring on the adapter that the grease zert attaches to the SSV. We pressure tested the new O-Ring to around 2000 psi and tested OK so we brought the well back on. Total shut in time was around 30 minutes. Estimated spill volume per the spill tech is around 20 gallons. Spill techs were immediately notified of spill and completed assessment and started clean up operations.	The tree was wiped down using absorbent pads. The contaminated gravel has been removed using a super sucker and hand tools.	The contaminated absorbent pads were taken to an approved NSB oily waste dumpster. The contaminated gravel has been taken to DS-4 Grind & Inject Facility	
9/11/02	2002-IR-310110	Well Pad H, H-Pad	Hydraulic Fluid	20.00	A leak from a hydraulic low pressure return filter, for the rig moving system, resulted in spraying hydraulic fluid on the walls and roof of its containment area. It was later discovered that a pressure reief valve failed and the seal for this filter saw 500+ psi instead of its rated 300 psi. This occured while moving the rig (on H-Pad). The Oil spray that landed on the outside of the containment walls ran down and onto the gravel of the pad. The maximum estimated spill amount is 15-20 gallons and has been 100% cleaned up.	The standing hydrualic fluid on the pad was soaked up with absorbent pads. The contaminated gravel was removed with heavy and hand tools.	The absorbent pads were disposed of in a NSB oily waste dumpster. The contaminated gravel was taken to T-Pad disposal pti.	
8/26/07	2007-IR-2383273	Flow Station 3, FS-3 outside module 4931, FS3	Lube Oil	20.00	After starting T/C 1803 the #4 bearing seal leaked and lube oil came in contact with hot exhaust duct and ignited. The operator was on site checking the system and extinguished the fire with a handheld extinguisher and shut the machine down. It took only two short burst from the fire extinquisher to estinguish the flame. Only ~ 20% of the extinquisher was used.	Structure was wiped down and containments cleaned with sorbent and rags. The contaminated gravel was removed with dump box, loader, bobcat and hand tools.	Rags and sorbents sent to oily waste. The contaminated gravel was removed to Pad 3 for storage and remediation.	
9/26/05	2005-IR-1556851	Drill Site 18, DS18, FS1/SIP/STP	Diesel	20.00	Spill dikes were laid down around picker and due to windy conditions were weighted down. Spill dike under fuel tank was weighted down with toolstring drip pan which consists of a plate and two ft of toolstring in perpendicular position. When outriggers were retracted, body of picker was lowered and fuel tank was punctured by toolstring drip pan	Heavy equipment and hand tools used to remove contaminated gravel from site. Diesel in containment sent for hydrocarbon recycle.	Contaminated gravel stored at Pad 3 West pit for future remediation. Liquid diesel recovered sent for recycle.	
6/24/07	2007-IR-2311107	Drill Site 03, DS3, FS2/COTU	Emulsion Breaker	20.00	Employee was performing emulsion breaker chemical delivery at DS3. During the fill, a hose came loose at the banding or hose clam between the hose reel and hard piping. Re-work on the Demptster tank was conducted recently, and the tank has been in service for approximately 30 days. Deliveries involving this tank since the re-work completion have been without incident.	Contaminated gravel removed with shovels and bagged.	The contaminated gravel and absorbents were sent to BP waste coordinators for sampling and disposal.	
6/14/04	2004-IR-938129	Drill Site 04, DS-4 pigging return line approximately 10 feet upstream of riser for portable tanks. , FS2/COTU	Crude Oil	20.00	The "Dewatering Crew" working on Drill Site 4 notified the operator of an oily substance on the ground beneath a line used to divert pigging returns to portable tanks during pigging operations. On closer examination, the operator discovered a hole in the line approximately one inch in diameter. There was no pigging operations going on and the line was blinded at the time of the discovery. The spilled material had been covered by snow and was revealed by the recent thawing activity.	Vac truck, Hand tool, were used to remove contaminated material.	Fluids were taken to pad 3. Snow, ice, and solids were taken to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/28/01	2001-IR-148485	Well Pad D, D-22	Crude Oil	20.00	While conducting a pre-rig diagnostic mechanical integrity test on the outer annulus of D-22 The tech used a tri-plex pump to pressure the outer annulus to 2000 psi. The tech checked his 15-minute reading and found that the outer annulus lost 85 psi. In 25 minutes of the test the tech was monitoring the gauge and found that the test lost 500 psi. The Tech heard and saw a pressure release coming from the conductor by a 13 3/8” outer annulus. Fluid migrated up the conductor pipe and into the well cellar. The Tech bled down the outer annulus with a bleed hose to the slop trailer. Then he rigged down from the outer annulus and rigged up to the inner annulus and started bleeding down the inner annulus to zero. The well was previously secured with a tubing tail plug. The Environmental Technicians were contacted via 5700 Spill Hotline. Fluid volume has been estimated to be 20 gallons of crude oil. There were no injuries or environmental damage as a direct result of this incident.	A supersucker was used to remove contaminated gravel from the Well Cellar. Cleaner and rags were used to clean affected well house walls.	Exempt material was taken to Drill Site 4 Grind and inject disposal facility.	
8/11/05	2005-IR-1498235	GC-2, GC-2 Skid 6, GC2/SAT	Scale Inhibitor	20.00	Site Glass Chemical tank leaked. (Nalco 2828 Plus) Leaked into secondary containment. Cause of leak is under investigation.	A hand pump was used to remove the standing liquids from the containment area. Sorbent material was used to remaining residue.	All material was taken to the GPB haz waste coordinator for proper disposal.	
6/21/06	2006-IR-1875764	Flow Station 2, FS-2 Access Road, FS2/COTU	Diesel	20.00	Fuel truck driver took attention away from the road, resulting in a vehicle roll over and material release.	Area was boomed off. Free standing fluids were absorbed and sucked up with a Vac-truck. Pond was drained. Residual contaminates were burned off the tundra grass with weed burners.	Fluids were sent to pad 3 for disposal. Sorbents went to oily waste.	
7/21/05	2005-IR-1467862	BOC, BOC OCX 1, Non Process Area	Sewage	20.00	A SEWER MAIN LINE BACKED UP INTO THE DISCHARGE LINE OF A STEAM HUMIDIFIER BOILER CONDENSATE SUMP DISCHARGE LINE. IT PUSHED PAST A CHECK VALVE INTO THE CONDENSATE SUMP AND OVERFLOWED INTO THE SKID AND EVENTUALLY ONTO THE PAD. THE BOILER WAS NOT IN SERVICE AT THE TIME. THE GATE VALVE ON THE CONDENSATE SUMP DISCHARGE WAS SHUT BY THE TECHNICIAN INVESTIGATING THE SPILL WHICH PREVENTED ANY FURTHER OVERFLOW.	Check valvel failed on the camp sewage system causing approximately 20-gallons of greywater to spill into the sub-floor and leak out onto the gravel pad. Camp maintenance crew members will repair or replace the failed check valve.	Contaminated gravel has been taken to Pad-3 Disposal Facility.	
10/8/01	2001-IR-123545	Flow Station 2, Pipeline access road to the center rear manifold on drill site 3	Corrosion Inhibitor	20.00	A service crew working on drill site 3 noticed an unusual smell and contacted the DS operator. Upon responding to the scene, the DS3 operator discovered corrosion inhibitor leaking from a parted swagelok fitting on the chemical treatment line to the common line. The line was isolated and SRT was called out. It appears that the recent shut down activity resulted in the chemical in the line becoming viscous due to the low temperature. When the chemical treatment was resumed, the additional pressure may have cause the line to part at the fitting. This is speculation as there was no indication of any other failure mechanism.	Bobcat, dumpbox, super sucker, and hand tools were used to remove contaminated gravel affected area.	Contaminated material was brought to pad 3 for disposel.	
5/15/07	2007-IR-2264510	Drill Site 04, Nordic 2 on Drillsite 4 Well 01, FS2/COTU	Hydraulic Fluid	20.00	On the morning of 15 May 2007, at approximately 4:00 am, en employee had just finished off loading water truck 85061 at Nordic 2 on Drillsite 4 Well 01. The employee sucked the 3¿ hose dry, and began loading it back onto the truck. This is when he heard a strange noise by the pump. The employee states that when he walked toward the pump to investigate, he heard a ¿pop¿. He looked down and saw hydraulic oil pouring onto the ground from the hydraulic oil reservoir. The employee put down his spill containment to catch what he could, but the containment filled up, and the oil continued to pour out onto the ground. Once the reservoir was empty, the employee made the required notifications. SRT estimated that approximately 20 gallons of hydraulic oil released to the ground. The cause of the release is a failed ball valve on the hydraulic oil return line. The release will be classified as a spill.	Loader, and dump box were used to remove contaminated snow and ice from ice ramp.	Contaminated material was brought to T pad for disposal.	
10/10/02	2002-IR-407533	Drill Site 04, Prudhoe Bay Drill Site 4, well 17	Produced Water	20.00	While replacing a choke seal on well 4-17, the SWI fluid in the body of the valve and the residual fluid in the line leaked in the well cellar.	contaminated gravel was removed by super sucker.	contaminated matreial was brought to G&I for disposal.	
6/23/06	2006-IR-1879203	U-03 (Water/Wastewater), U-3 sewage holding tank, Non Process Area	Sewage	20.00	While vac driver was off loading sewage at U-3 driver saw liquid leaking from a crack in the hose. Driver shut down pump, evacuated hose and replaced with a new hose.	Contaminated gravel was picked up using hand tools and a bobcat and dump box. Lime was spread on the area.	Contaminated gravel taken to pad-3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/18/06	2006-IR-1837595	Well Pad, Roads, Access road between L and V-pads, Non Process Area	Propylene Glycol	20.00	The bottom radiator hose on grader 58-308 failed while blading the road between L and V pads, spilling approximately 20 gallons of glycol onto the road.	A grader and loader were used to remove the material from the road and hauled with a dump truck to T-pad.	The material was taken to T-pad storage facility.	
7/3/04	2004-IR-964083	Well Pad M, behind well M-13, GC2/SAT	Produced Water	20.00	M-13 injection flow line ruptured, resulting in a 20 gal produced water spill. The flow line was not freeze protected when the well was switched to MI on 1/30/2004. The produced water froze, rupturing the line.	A loader and shovels were used to clean up the contaminated gravel after the flowline was removed.	The gravel was taken to Drill site 4 G&I facility	
10/26/05	2005-IR-1592667	Drill Site 09, DS09 methanol water tank., FS2/COTU	Hydraulic Fluid	20.00	While attempting to make a 50/50 methanol water delivery at DS09, the Chemical Delivery driver experienced hydraulic failure on his vehicle. Upon further inspection it was determined that the hydraulic filter had blown off as the PTO was engaged. The delivery driver notified SRT, and the pad operator of the incident. Volume was estimated to be 20 gallons.	Loader and dump box were used to remove contaminated gravel.	Material was brought to pad 3 for disposal.	
1/16/07	2007-IR-2123092	Seawater Injection Plant, Seawater Injection Plant , FS1/SIP/STP	Seawater	20.00	On January 16, 2007 at approximately 0200 a VECO employee was loading sea water into vac unit #82190/86051 at SIP which was intended for Drilling rig DOYON 14. The vac unit was being gravity fed through a 3¿ hose. During the loading process the operator would visually checked the sight gauge and return to the valve shack to keep warm. As the tank was close to becoming full the operator checked the gauge and found that it registered at 275 BBLs. He decided to go back into the valve shack for another five minutes to let the tank fill to its 290 BBL maximum limit. After five minutes had passed the employee left the valve shack to check the status of the loading process. As he walked to the side of the truck the employee noticed fluid coming out of the vent line onto the ground. Upon recognition of the situation the employee closed all valves to prevent further fluid release. VECO dispatch was then called and all proper notifications were made. It is estimated that approximately 20 gallons of sea water contacted the pad surface.	Bobcat and dump box were used to remove frozen saewater.	Material was brought to Tpad for disposal.	
2/3/04	2004-IR-766397	Hot Water Plant, Hot Water Plant, Non Process Area	Sewage	20.00	Frozen plumbing on toilet system. Heat was applied and a spill of gray water occured. Piping appeared to be cracked.	Frozen material was scraped up with a loader and placed into a dump box for disposal.	Material was taken to T-pad for disposal	
9/25/05	2005-IR-1556716	Main Construction Camp (MCC), MCC parking lot., Non Process Area	Diesel	20.00	After fueling truck from Arctic tank, the pump nozzle was replaced in holster in incorrect position. While traveling from one location to another, fuel was released from nozzle as pump was activated due to vibration caused by traveling on rough roads.	Material was picked with loader and loaded into dump box. Material taken to Pad 3 West Pit.	Material was taken to Pad 3 West Pit.	
2/26/05	2005-IR-1256829	Flow Station 2, Pipeline road going to Flow Station #2, FS2/COTU	Hydraulic Fluid	20.00	Loader #52-237 and Blower #53-008 experienced a failure of the hydraulic hose, (Case Flow Line), running from the power head to the blower. Approx. 20 gallons of hydraulic oil was spilled onto the pipeline access road going to Flow Station #2. SRT was notified.	Loader and dump box were used to remove contaminated snow.	Material went to T Pad for disposal	
7/8/01	2001-IR-53084	Warm Storage, Heavy Equipment warm storage	Hydraulic Fluid	20.00	Hydraulic hose failure on water wagon #34-005 at 18:18 on 7/8/01 resulting in a 20 gal. spill of hydraulic fluid at Heavy Equipment warm storage. SRT notified and cleaned up the spill.	Recovered with hand tools and loader. Placed into dump box for disposal at Pad 3	Pad 3 West Plt	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/7/01	2001-IR-95830	Well Pad R	Hydraulic Fluid	20.00	A 1.5 inch hydraulic supply hose from the power pack to the coil tubing unit mast failed resulting in hydraulic fluid being leaked onto the pad. Dowell Schlumberger CTU #5 was rigged up to perform a fill clean out on well #20 at R-Pad. When the day shift arrived on site, at approximately 0700 hours, they conducted a walk around of the unit prior to the rig down of tools. The Production Engineer and the coil crew then conducted their morning safety meeting. During the safety meeting, one of the crew members noticed that the hydraulic charge pressure gauge was flickering. The crew went to the power pack to investigate and noticed hydraulic fluid in the spill containment dike under the coil unit. The crew immediatley shut in the deck engine and hydraulic systems on the coil tubing unit and promptly reported the incident to the Well Operations Supervisor and the APC Safety Specialist. The hydraulic hose showed signs of abrasion at the area where the hose is run through a floor penetration on the unit. There were softeners or grommets around the hose at the floor penetrations however the hose still had indications of abrasions. Approximatley 20 gallons of hydraulic fluid was contained in the spill dikes located under the coil tubing unit and approximately 2 gallons on the snow covered pad. There were no injuries as a result of this incident and the tundra was in no way affected. The ambient temperature was -26 degrees F. when the failure occurred.	All material on pad has been cleaned up using a loader and hand tools. Material in containment was reused and wiped up with sorbent.	Pad-3	
6/24/02	2002-IR-425927	Well Pad V, V pad	Sewage	20.00	Fitting leaked spilling 20 gallons of sewage inside skid. Some leaked to gravel pad.	Vacced materials off floor of skid. Hand shovels and bagged gravel from under skid.		
8/29/92	1992-IR-86677	BOC	Diesel	20.00	The Safety department had requested an old vehicle be brought to the fire training grounds for use during a Medical Drill. The Anchorage Coordinating Team (participants in the drill) requested that the vehicle be turned upside down. When this was done, fuel leaked from the fuel tanks. A backhoe was used to scrape up the contaminated material into the end dump truck. The contaminated gravel was taken to A3W2 melt tank.		The contaminated gravel was taken to A3/W2 melt tank.	The Safety department had requested an old vehicle be brought to the fire training grounds at CC-2 for use during the Medical Drill. The Anchorage Coordinating Team for the drill, requested the vehicle be turned upside down. When the vehicle was turned
3/5/94	1994-IR-88603	Drill Site 01	Crude Oil	20.00	While circulating out freeze protection fluids, crude oil remaining in annulus overloaded the gas buster. Fluid that the flow line from gas buster could not accommodate went out the vent line. (It isn't clear if the buster overloaded or if the float stays down when small amounts of fluid enter the chamber. If this is the case, the buster helps control the well and makes a mess in the mean time.)		Material exempt, was melted and taken to GC-2 Ball Mill/Injection Facility.	While circulating out freeze protection fluids, crude oil still remaining in annulus overloaded gas buster and vented oil onto pad.
6/25/98	1998-IR-90064	Well Pad W	Diesel	20.00	Approxitmatly 20 gallon diesel spill was discovered in front of Well SB-02 on W-Pad. The cause is unknown. The spill appears to be historical contamination.		Stockpiled contaminated gravel was sampled and analyzed prior to non-hazardous disposal at ARCO Pad 3.	An approximately 20 gallon diesel spill was discovered in front of well SB-02 on W pad. The cause is unknown. This spill appeared to be historical contamination. The Spill Technicians used professional judgement in determination that the spill is from
8/14/98	1998-IR-89955	Well Pad C	Drilling Mud	20.00	Incident: At 1930 hours 8/14/98, approximately 20 gals of returned Flo-Pro** drilling mud was spilled in C-26a?s well cellar and on the gravel pad in a 10? x 10? area surrounding the well. While spooling coil tubing out of the hole, a U" Whitey valve nipple on the DS riser just below the rig floor broke. The Nordic Driller noticed the leak and the pumps were shutdown immediately to stop the leak. Sorbent was used to clean-up the mud and approximately 50% (10 gals) were recovered. Kent Ingalls, Spill Tech, examined the affected area and determined that no additional clean-up was required while the rig was over the well. A new riser section was installed and a plug was screwed into the U" port instead of a nipple/valve. ** The 20 gallons Flo-Pro spilled contains: fresh water, 8# KCL, 4# NaCl, 1# Flo-Vis polymer.		Sorbents were bagged and placed in an oily waste dumpster for incineration.	At 1730 hours 4/14/98, approximately 20 gals of returned Flo-Pro** drilling mud was spilled in C-26a well cellar and on the gravel pad in a 10? x 10? area surrounding the well. While spooling coil tubing out of the hole, a U" Whitey valve nipple on the
3/13/98	1998-IR-90710	GC-1 LPS Section	Produced Water	20.00	The hose was installed in such a way that when a vigorus folw came through it it kicked up allowing some of the flow to arch up and out onto the pad.	Spilled material was recovered with a scratcher and loader bucket. Spilled material was limited to the frozen surface of the pad. The Lead Spill Technician determed cleanup adequacy based on a visual inspection.	Recovered material was taken to ARCO Pad 3 for RCRA-exempt disposal.	While flushing-out a slug cather at GC-1, the discharge hose to a tank outside of Skid 454 sprayed water on the pad. The hose had been secured to the tank but the 3-4 foot loose end wipped when the hose was pressurized. Approximately 80 gallons spilled

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/31/98	1998-IR-90395	Well Pad J	Crude Oil	20.00	The J-5 Flowline developed a leak at or near Skid 52 snow shelter. After removing flowline insulation, it was determined the J-5 P-pilot was leaking at threads where it taps into flowline. Leaking oil migrated through insulation along pipe outside Skid 52 onto the ground and into liner in snow shelter. J-5 line was depressured, pilot manifold removed, reinstalled, pressure tested and line put back into service. Most of the spill cleanup has been done and will be completed in the Spring.		RCRA-exempt Class II material was taken to ARCO Pad 3 for disposal.	The J-5 Flowline developed a leak at or near Skid 52 snow shelter. After removing flowline insulation, it was determined the J-5 P-pilot was leaking at threads where it taps into flowline. Leaking oil migrated through insulation along pipe outside Skid
12/25/98	1998-IR-90331	Well Pad E	Drilling Mud	20.00	Employee was washing off shakers, notice water building up in trough 2-3" on the discharge end to cuttings tank. Found discharge hose frozen up. Ran a steam hose through the trough into the plugged hose to thaw out. When he returned outside tocheck the end of the hose, he discovered that the steam was pushing the water in the hose out between the hose & the discharged nipple on the trough spraying onto the pad off the side of the cuttings tank. Operation was shut down. Crew responsed & cleaned up area spill. Placed in mud pit, melted to be used as mix water in mud. Notified BP environmental & SSD on call superintendent		Contaminated snow and product was taken to be reused in mud tank.	Employee washing off shakers found discharge hose frozen up going to cutting tank. A steam hose was run through the trough into the plugged hose to thaw out. When worker returned outside to check the end of the hose, he discovered that the steam was push
6/19/94	1994-IR-86237	Well Pad D	Seawater	20.00	When preparing to P-test coil tubing, all lines & valves were checked. However, a bleed valve on pump discharge line was open but felt closed by the operator. Valve had gotten over torqued in the open position somehow. Shaft of the valve was slightly bent and may have been the cause to be jammed open. The result was a spill of 20 gallons of seawater onto the pad.		The contaminated material was taken to Arco Pad 3 for disposal.	While the coiled tubing unit was in operation, a needle valve on the hard line was damaged (the stem valve) causing the valve to appear closed when, in fact, it was open. Because the valve was open, when the line was pressured up, seawater sprayed onto
1/9/98	1998-IR-90325	Well Pad P	Drilling Mud	20.00	While preparing for cement job, vacuum truck was requested to discharge fluid into storage tank. Operator placed hose in tank but did not secure hose. Operator walked away from hose to discuss job with pumping crew. Hose fell out of tank during discharge spilling 20 gallons of a mixture of drilling mud and freshwater onto P Pad. The spill technician was contacted and the spill cleaned up.		Material was melted and taken to Pad 3 for disposal.	While preparing for cement job, vacuum truck had to discharge fluid into storage tank. Operator placed hose in tank but did not secure hose. Operator walked away from hose to discuss job with pumping crew. Hose fell out of tank during discharge spillin
1/9/98	1998-IR-90325	Well Pad P	Fresh Water	20.00	While preparing for cement job, vacuum truck was requested to discharge fluid into storage tank. Operator placed hose in tank but did not secure hose. Operator walked away from hose to discuss job with pumping crew. Hose fell out of tank during discharge spilling 20 gallons of a mixture of drilling mud and freshwater onto P Pad. The spill technician was contacted and the spill cleaned up.		Material was melted and taken to Pad 3 for disposal.	While preparing for cement job, vacuum truck had to discharge fluid into storage tank. Operator placed hose in tank but did not secure hose. Operator walked away from hose to discuss job with pumping crew. Hose fell out of tank during discharge spillin
12/3/95	1995-IR-98547	Drill Site 15	Crude Oil	20.00	"The packing failed on a check valve inside a well house. Approximately 5 gallons reached the gravel inside the wellhouse, 14 gallons sprayed on wellhouse cellar walls, grating and """"christmas tree"""", and 1/2 gallon sprayed a fine mist onto snow co	"A loader and handshovels were used to remove the contaminated snow outside the wellhouse. A steamer and soap were used to wash the walls, grating and the tree. A guzzler was used to remove the contaminated gravel from inside the wellhouse. - The con		"The packing failed on a check valve inside a well house. Approximately 5 gallons reached the gravel inside the wellhouse, 14 gallons sprayed on wellhouse cellar walls, grating and """"christmas tree"""", and 1/2 gallon sprayed a fine mist onto snow co
9/29/95	1995-IR-91415	Well Pad Y	Drilling Mud	20.00	While circulating at 2300 hrs. on 9-29-95, a sudden loss of pump pressure was noticed. The mud pump was immediately shut down and the crew found that a 3 inch high pressure mud jumper hose had burst. This hose runs from the mud pump to the standpipe line. An estimated 20 gallons of drilling mud spilled from a hole in the wind wall onto the ground. 18 gallons of mud were recovered and 2 gallons of mud and 12 cu.yds. of contaminated gravel were disposed of into the cuttings tank. This mud will be sent to CC2 Ball Mill for injection.		Drilling mud and gravel were deposited in the slop tank for re use. The bags of contaminated sorbents were taken to the NSB Incinerator.	A high pressure flex hose (known as a 'shock hose' began to leak causing the compartment under the drilling floor to fill up with drilling mud. Mud escaped from the seams of the drilling rig and the mist was carried to well house Y-27 by the wind.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/28/94	1994-IR-88446	Niakuk Pad	Drilling Mud	20.00	Employee was instructed to remove divertor line and get tools for nippling down riser. Because he did not understand his instructions clearly, he removed divertor and then removed 4" drain line from riser before spud mud had been drained. Consiquently, the fluid in the riser drained uncontrollably from riser to cellar, overfilling the cellar, spilling approx. 20 gals of mud on to the pad. The crew notified the supervisor. The supervisor immediately contacted the environmental dept. and began clean up procedures.		The drilling mud was put back into the mudpit for re-use in the drilling process.	Employee failed to check cellar valve for fluids before disconnecting a 4" drain valve on a 20" conductor causing contents of the conductor to fill the well cellar and to overflow onto the pad.
8/30/98	1998-IR-90231	GC-3 PWX Section	Produced Water	20.00	At 0400hr, 8/30/98, a produced water leak was discovered when the drain hose slipped out of the bleed tank outside of Sk. 301. The hose was replaced in the tank and the spill reported to OI.		Gravel will be taken to pad 3.	During fluid transfer of produced water, a hose going into a tiger tank kicked back enough to caused the liquids to hit the top of the hatch spraying approx. 20 gallons onto the gravel pad.
9/13/94	1994-IR-98379	Drill Site 09	Diesel	20.00	"During a coiled tubing operation, the displaced fluid was being pumped into a tank. However, a portion of the fluid leaked out of the annulus through a partially opened needle valve."	A supersucker was used to remove fluid from well cellar at the time of the spill. Once the wellhouse was moved the supersucker removed the contaminated gravel under the wellhouse . - The contaminated gravel was taken to Pad 3 West Pit on 9/14 & 9/17 /94		"During a coiled tubing operation, the displaced fluid was being pumped into a tank. However, a portion of the fluid leaked out of the annulus through a partially opened needle valve."
1/3/93	1993-IR-86558	Well Pad R	Seawater	20.00	Nowcam tubing unit was working on Well R-14 doing a fill clean out on the well when the pipe between the injector head and pack off split causing seawter to spray into the reserve pit. The material was scraped up with a 350 dozer and loaded into the dump truck. The material was taken to T Pad pit. The coil tubing spool was replaced.		The material was taken to T pad pit.	Nowcam tubing unit was working on well R-14 doing a fill clean out on the well when the pipe between the injector head and pack off split causing seawater to spray into the reserve pit.
3/8/96	1996-IR-90806	Drill Site 15	Seawater	20.00	While displacing the mud system to seawater on well DS 15-48, the popoff for the #1 suction pump failed allowing seawater to flow back into the pit system, overflowing onto the pad.		The seawater-snow material was put in the slop tank and was re-used downhole (within one hour of the incident).	While displacing the mud system to seawater on well DS 15-48, the popoff for the #1 suction pump failed allowing seawater to flow back into the pit system, overflowing onto the pad.
4/13/94	1994-IR-88677	Well Pad Y	Seawater	20.00	Vac truck was loading upright tank via filter pod. Filter pod was sucked back with valves left open to prevent freeze-up per standard operating procedure. Truck operator arrived with new load of seawater and hooked up to filter pod. Driver made walkaround inspection of filter pod and started pumping seater. Seawater came out of open valve on pod, resulting in 20-gallon spill on the pad.		The contaminated material was taken to Arco Pad 3.	While transfering seawater from a peak vac truck to a verticle tank, a valve cap on the filter pod was left off, allowing approximately 20 gallons of sea water to spill onto the pad.
3/12/97	1997-IR-89199	Well Pad E	Crude Oil	20.00	During snow melting operations on Echo Pad the following occurred: Winds increased to phase I during jetting operations caused liquids to be carried out of containment area and onto nearby equipment, pad and tundra.		Contaminated material was melted using the snow melter and hauled to GC-1 for reinjection.	During snow melting operations on E Pad, high winds during jetting operations caused liquids to be carried out of the snow melter to the pad surface and snow adjacent to the pad.
3/9/98	1998-IR-90702	Well Pad Z	Crude Oil	20.00	At approx 2130 3/9/98 a worker in a wireline unit adjacent to well Z 24 heard a loud hissing. Upon investigation noticed oil and gas spraying into the wellhouse. He immediately notified the Pad Operator and remotely isolated the well. It appears that metal fatigue caused a cracked form at approx 12 oclock on the S Riser.		Contaminated snow and gravel was taken to ARCO Pad 3 for RCRA-exempt disposal. Sorbents and rags were bagged and placed in an oily waste dumpster for disposal.	A crack developed on the flow line inside the well house on Z-Pad Well 24. This resulted in approximately 20 gallons of crude oil sprayed inside the well house structure.
4/13/93	1993-IR-89852	Well Pad C	Diesel	20.00	While the main storage tank on the rig, the tank was filled to 15,000 gallons and during the night the fuel expanded and came out of the vent on top of the tank.		The contaminated sorbents were placed in garbage bags and taken to the oily waste dumpster.	While the main storage tank on the rig, the tank was filled to 15,000 gallons and during the night the fuel expanded and came out of the vent on top of the tank.
2/9/96	1996-IR-91298	Drill Site 13	Seawater	20.00	A crack in the cutting tank box allowed approximately 20 gallons of sea water to leak from underneath the tank while circulating sea water to kill the well.		The class II clean up material was taken to CC2A injection well for disposal.	A crack in the cutting tank box allowed approximately 20 gallons of sea water to leak from underneath the tank while circulating sea water to kill the well.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/8/92	1992-IR-88127	Well Pad W	Seawater	20.00	LOCKING DOWN LOCK DOWN PINS WRENCH SLIPPED OFF STRICKING KNEE	Squeegeed seawater back into cellar and pumped it to slop tank upon pumping out of the cellar.	Will be sent with other water used in completion process.	A stand pipe valve was left open after blowdown & upon filling. The well bore with seawater, fluid went up the kelly into cellar. Cellar overflowed.
4/6/93	1993-IR-87630	GC-3 LPS Section	Crude Oil	20.00	While draining the WHRU system for valve and piping replacement, a recordable spill occurred. The tiger tank that was being used to drain the system was overflowed. An estimated 40 gallons of crude and water spilled onto the pad underneath skid 451.		Materials was placed into dump truck and hauled to Pad 3.	Waste heat recovery unit water was being transferred into a tiger tank. During transfer procedure, tiger tank was left unattended. Tank overfilled.
4/6/93	1993-IR-87630	GC-3 LPS Section	Produced Water	20.00	While draining the WHRU system for valve and piping replacement, a recordable spill occurred. The tiger tank that was being used to drain the system was overflowed. An estimated 40 gallons of crude and water spilled onto the pad underneath skid 451.		Materials was placed into dump truck and hauled to Pad 3.	Waste heat recovery unit water was being transferred into a tiger tank. During transfer procedure, tiger tank was left unattended. Tank overfilled.
11/19/96	1996-IR-89705	GC-2 Pad	Methanol	20.00	A new methanol tank had been installed at the skid 40 flare building. The tank was being filled for the first time. The volume of the tank was assumed to be 400 gals but had not been verified bythe fill operator. During the filling operation the tank level was being monitored at the sight glass inside the building and at the tank outside. Filling was stopped several times to ensure that the sight glass was keeping up with the tank. No evidence of spillage was observed during the fill operation. Approximately 340 gals was metered from the fill truck. The delivery truck disconnected, picked up the portable spill containment and left the site. The tank was then lined up by the area operator to put in service. Approximately 1 hour later it was noticed that some methanol had been spilled from the tank. The tank may have "burped" while putting it in service and as it was completely full, spilled from the tank vent to the ground. Closer look at the sight glass indicates that the glass is physically higher than the tank so doesn't indicate an accurate tank level. Environmental dept was notified and assessment and reporting completed. The contaminated snow and gravel was cleaned up with a super sucker truck and disposed of. Environmental dept estimate of the material cleaned up wa 20 gals.		Methanol was recovered for reuse. Update: EPA "Contained-In Determination" for the gravel that has been stockpiled at T-Pad was received 10/30/98.	The sight glass on a new methanol tank was improperly installed, resulting in overfilling in spite of operator's efforts to follow proper procedures.
4/17/98	1998-IR-98736	Drill Site 15	Diesel	20.00	Welded seam split on the vertical section of the fuel tank of the generator set allowing the diesel to spill onto the snow covered gravel pad.	"Chipping bars, shovels and bobcats were used to load approximately 11 cubic yards of gravel and snow in to the auto dump box to be taken to Pad 3. - Contaminated gravel was taken to Pad 3 West Pit on 4/21/98 and the contaminated snow was taken to Pad 3		Welded seam split on the vertical section of the fuel tank of the generator set allowing the diesel to spill onto the snow covered gravel pad.
12/23/97	1997-IR-90352	Well Pad R	Diesel	20.00	While using a heater (88556) at R-23, the seal between the pump and the burner ruptured due to extreme cold. The pump continued to pump diesel until it overflowed primary catch pan. About 20-25 gal overflowed on to the pad. Material was scraped with a rake and bucket and put into a dump truck. The material was hauled to pad 3.			The burner unit on a portable heater failed. Diesel was still being fed to burner, causing heater to overflow 20 gallons of diesel onto pad.
2/9/94	1994-IR-88580	Well Pad D	Drilling Mud	20.00	Sea water was being transferred from rig slop tank to Peak vacuum truck. Transfer permit was being used. Driver was sucking on the fluid while the rig hand was pumping off the fluid. When the vac truck filled, truck driver shut down and walked to back of truck to shut in. Hands in pit continued to pump expecting vac truck driver to signal them when he was full. About 20 gallons of sea water overfilled the truck onto gravel pad. Poor communication between rig employee and truck driver was cause of spill.		Scraped up snow and drilling mud, melted it and placed it in slop tank which was reused in drilling process.	Transferring drilling mud from rig slop tank to vac truck. Vac truck overfilled as rig continued to pump fluid to vac truck.
12/21/97	1997-IR-98713	Drill Site 09	Seawater	20.00	"Taking hose from Hot Oil Unit, the stinger to the frac tank broke causing the product to spill onto the snow covered pad."	Used chipping bars and shovels to clean up the product and place in oily waste bags to be incorporated into a similar products load manifested to Pad 3. - Contaminated snow/ice to be taken to Pad 3 East Pit .		"Taking hose from Hot Oil Unit, the stinger to the frac tank broke causing the product to spill onto the snow covered pad."
8/5/97	1997-IR-100847	Point MacIntyre	Diesel	20.00	Hydraulic control line needle valve was inadvertently left open by personnel which caused diesel to leak on to pad.	The contaminated gravel was removed by Operations and SRT using a bobcat and hand shovels. - Product was placed into a dump truck and taken to Pad 3 west pit for thermal remediation.		Hydraulic control line needle valve was inadvertently left open by personnel which caused diesel to leak on to pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/6/92	1992-IR-88145	WSW	Seawater	20.00	During a seawater loading operation the truck was overloaded. This caused seawater to spill out of the overfill line on the truck.		All contaminated gravel was taken to Arco Pad 3. All water and fluids taken to GC1 Dirty Water Ttank. All sorbents were put into yellow bags and deposited into the NSB incinerator dumpster.	While filling a 90 BBL truck with seawater, the truck overflowed. Operator indicates the sight gauge read 60 bbls.
6/21/95	1995-IR-98266	Drill Site 03	Diesel	20.00	"Overhead valve of fuel tank left open, allowing diesel to flow into sump which overflowed onto gravel pad"	"Using SRT Bobcat, cleaned up contaminated gravel - Contaminated gravel disposed at Pad 3 West Pit on 6/22/95"		"Overhead valve of fuel tank left open, allowing diesel to flow into sump which overflowed onto gravel pad"
12/4/92	1992-IR-91134	Well Pad, Roads	Drilling Mud	20.00	Vibrations caused the rear door of the guzzler unit to open slightly allowing mud to seep out onto the road. The contaminated snow and gravel were scraped up with bucket loaders and the contaminated material was taken to the lined pit at DS-5.		Contaminated snow and gravel taken to lined pit at DS-5.	Vibrations caused rear door of guzzler unit to open slightly, allowing drilling mud to seep out onto road.
12/11/95	1995-IR-91297	Well Pad S	Drilling Mud	20.00	The rig had finished cutting a window in the casing and tripped pipe out of the hole. The flowline had metal cuttings deposited in it to approx. 1/3 to 1/2 full. The kelly was picked up and a jet-sub was made up on the kelly to flush out the flowline of metal cuttings. The jet-sub was lowered into position and pointed down the flow line. The mud pump was turned on at approx. 5 to 6 bbls. per min. rate. The metal cuttings blanked off the shaker screens and caused mud to run off the end of the them. The pitwatcher tried to clean the screens off, then called for the driller to shut off the mud pump. The mud overflowed the small metal cuttings bucket and berm and approx. 20 gals. of drilling mud spilled uncontained onto the pad before the operation was stopped.		The mud was vaced up and pumped back into the mud room for re-use.	Approx 20 gallons of drilling mud spilled onto the Pad when the screens on the mud shakers plugged up.
7/22/92	1992-IR-86668	Well Pad Y	Diesel	20.00	Needle valve failed at 3600 psi allowing the material to spray from the inner annulus of the well. A loader was used to scrape up the contaminated material which was placed in a dump truck for removal from the site to Arco Pad 3 Solids pit. The faulty needle valve was replaced.		Contaminated material taken to Arco pad 3 solids pit.	Needle valve failed at 3600 psi, allowing the material to spray from the inner annulus of the well.
1/10/97	1997-IR-98669	Central Gas Facility	MEG	20.00	A glycol supply piping flexible hose failed. The cause of the failure is under investigation.	"SRT placed sorbents under module soffets to collect dripping glycol. When material finished draining from the soffets, the contaminated snow and ice was picked up with a bobcat and hand shovels. - Contaminated snow and ice were disposed of at Pad 3		A glycol supply piping flexible hose failed. The cause of the failure is under investigation.
6/19/93	1993-IR-100891	Lisburne Production Center	MEG	20.00	Sump pump overfilled causing the sump to overflow out of the module thru the soffit floor.	Metis/Cleanup		Sump pump overfilled causing the sump to overflow out of the module thru the soffit floor.
1/22/99	1999-IR-93369	Well Pad Y	Methanol	20.00	Y pad operator found methanol drum leaking. Imediately called Lead spill Tech. Spill tech's repsonded and put drum into a overpack drum and removed snow and contaminated gravel.	Impacted snow and gravel was shoveled up with hand tools, containerized, and taken to Env Shop for recovery.	Contaminated snow and gravel was bagged and returned to the Environmental Shop for methanol recovery and appropriate disposition of gravel.	The spill volume was calculated after transfer of remaining product from the leaking drum.
7/7/92	1992-IR-90915	Drill Site 15	Drilling Mud	20.00	While dumping drill mud into the dike area, some mud ran over the dike wall onto the pad.		All contaminants hauled to CC-2 Ball Mill for "down hole" disposal.	While dumping drill mud into the dike area, some mud ran over the dike wall onto the pad.
8/7/94	1994-IR-98245	Flow Station 2	Diesel	20.00	"A check valve developed a leak, allowing diesel to escape into the surrounding gravel."	Bobcat loader and dump truck were used to pick up contaminated gravel and remove it from the site. - Contaminated gravel was taken to the Pad 3 West Pit on 8/13/94 and is currently being remediated.		"A check valve developed a leak, allowing diesel to escape into the surrounding gravel."
12/15/92	1992-IR-97855	Drill Site 15	Diesel	20.00	"Fuel return line on a mobile heater broke, causing the engine to pump out the fuel."	Metis/Cleanup		"Fuel return line on a mobile heater broke, causing the engine to pump out the fuel."
9/23/99	1999-IR-98829	Seawater Injection Plant	Seawater	20.00	Transfer hose being used to transfer seawater to Pad 10 pit and split line on side.	ACS cleaned up and disposed of material.		Transfer hose being used to transfer seawater to Pad 10 pit and split line on side.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/13/94	1994-IR-98215	Drill Site 18	Diesel	20.00	***Choke failure during pressure testing operations released a spray of crude oil.	"Vac truck recovered fluids from the well cellar. Shovels were used to pick up contaminated gravel outside the wellhouse. The well house was removed on 7/27/94, and the remaining spilled material was removed. - Contaminated gravel was taken to Pad 3 t		***Choke failure during pressure testing operations released a spray of crude oil.
8/3/97	1997-IR-89444	Well Pad, Roads	Diesel	20.00	A team of Sperry-Sun researchers were using a CATCO Rolligon to help them with a project. Upon completion of the project the rolligon was driving down the T Pad Access road. A drive roller on the rolligon failed and impacted a diesel fuel line which runs between two fuel tanks. The fuel line broke and 20 gallons of diesel spilled onto the road. The spill was cleaned up and the contaminated gravel was disposed of.		The non-hazardous material was taken to Arco Pad 3.	A Catco Rolligon travelling over the road lost a roller which broke the fuel line.
6/14/00	2000-IR-98361	Drill Site 15	Seawater	20.00	Vacuum truck driver was offloading seawater into upright tank and overfilled it.	6/14/00 - The spill was cleaned up by the wells group. SRT returned after rig was moved and soaked up free standing liquids and shoveled gravel into oily waste bags for disposal.		Vacuum truck driver was offloading seawater into upright tank and overfilled it.
12/18/93	1993-IR-97399	Drill Site 03	Produced Water	20.00	Leaked from faulty grease fitting on drain valve on produced water flow line.	A loader and scraper were used to cleanup the contaminated snow. Cleanup is 100% complete. - The contaminated snow was taken to Pad 3 WIF on 1/9/94.		Leaked from faulty grease fitting on drain valve on produced water flow line.
8/20/93	1993-IR-88726	BOC Pad	Diesel	20.00	WHILE TRACKING DOWN A SEWAGE PIPE RUN UNDER BOC SERVICE MODULE, IT WAS NOTICED THAT A DEAD LEG PIPE WAS COMING OUT OF A UTILIWAY. WHEN INQUIRY WAS MADE AS TO WHAT PIPE WAS FOR, IT WAS SAID IT WAS AN ABANDONED DIESEL FUEL SUPPLY LINE FOR A GENERATOR AND INCINERATOR NO LONGER IN PLACE. IT WAS OBSERVED THAT THE LINE WAS WET AND A DROP FELL FROM THE INSULATION, WHICH TURNED OUT TO BE DIESEL FUEL. THE LINE HAD BEEN LEAKING FOR AN UNKNOWN LENGTH OF TIME, A PIT HAD BEEN DUG, SOMETIME IN THE PAST, UNDER THE END OF THE LEAKING PIPE TO ACCOMODATE A 1 GALLON CAN, THE CAN HAD FROZEN AND THE BOTTOM WAS OUT. ENVIRONMENTAL WAS NOTIFIED. Employee interviews determined that this line was abandoned in 1979.		Contaminated gravel was taken to ARCO Pad 3.	Leaking fitting at the end of a diesel supply line that is no longer in use.
3/11/95	1995-IR-98575	Drill Site 09	Methanol	20.00	"*During tank moving procedures, the tank tipped and methanol slopped out."	SRT and on-site personnel used shovels and supersucker to remove methanol and contaminated snow. - Contaminated snow and ice were taken to Pad 3 East Pit on 3/11/95 for future melting and injection.		"*During tank moving procedures, the tank tipped and methanol slopped out."
2/18/92	1992-IR-97824	Flow Station 1	Produced Water	20.00	Produced water transfer line corroded spilling water onto the module floor.	YES -		Produced water transfer line corroded spilling water onto the module floor.
8/11/92	1992-IR-90910	Drill Site 15	Drilling Mud	20.00	Line between high pressure mud pumps and rig floor failed due to corrosion.		All contaminated material hauled to CC-2 Ball Mill for disposal.	Line between high pressure mud pumps and rig floor failed due to corrosion.
4/3/93	1993-IR-97431	Drill Site 07	Methanol	20.00	Leaked from hardline that was improperly aligned during pressure testing.	Metis/Cleanup		Leaked from hardline that was improperly aligned during pressure testing.
9/3/90	1990-IR-97096	Pad 3	Diesel	20.00	"A pump failed to shut off when valve was clos- ed,hole in hose resulted"	YES -		"A pump failed to shut off when valve was clos- ed,hole in hose resulted"
10/7/96	1996-IR-100647	Point MacIntyre	Crude Oil	20.00	Failure of pipe in a coiled tubing unit due to fatigued or damaged pipe.	Metis/Cleanup		Failure of pipe in a coiled tubing unit due to fatigued or damaged pipe.
4/15/96	1996-IR-100640	Point MacIntyre	Seawater	20.00	Material released from leaking flange on a seawater injection line.	Handshovels were used to remove the contaminated snow. - The contaminated snow was taken to Pad 3 E. Pit to be held for future melting and injection.		Material released from leaking flange on a seawater injection line.
9/28/92	1992-IR-100821		Fresh Water	20.00	Material overfilled the sight glass tube while filling a frac tank.	Metis/Cleanup		Material overfilled the sight glass tube while filling a frac tank.
1/8/90	1990-IR-100878		Crude Oil	20.00	1/4 turn valve left open going to slop oil trailer from lubricator	YES -		1/4 turn valve left open going to slop oil trailer from lubricator

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/30/90	1990-IR-97156		Diesel	20.00	Valve on tanker was frozen shut resulting in overfilling of tanker	YES -		Valve on tanker was frozen shut resulting in overfilling of tanker
9/6/91	1991-IR-97542	Drill Site 12	Diesel	20.00	Cause of spill unknown. Spill discovered after incident occurred.	YES -		Cause of spill unknown. Spill discovered after incident occurred.
5/27/92	1992-IR-97360	Drill Site 05	Diesel	20.00	Material drained through a faulty check valve on a triplex pump.	Metis/Cleanup		Material drained through a faulty check valve on a triplex pump.
4/10/90	1990-IR-96959	Drill Site 03	MEG	20.00	Leaked from a coupling on a heat exchanger while being repaired.	YES -		Leaked from a coupling on a heat exchanger while being repaired.
2/18/93	1993-IR-98118	Flow Station 3	Seawater	20.00	Release from pump discharge hose while draining a pig launcher.	Metis/Cleanup		Release from pump discharge hose while draining a pig launcher.
9/16/93	1993-IR-86710	Well Pad S	Diesel	20.00	The source of the spill is unknown. The spill was discovered during an Environmental Department pad inspection. The contaminated gravel was scraped up with a 966 loader and placed in a dump truck for deliver to Pad 3.		Contaminated gravel hauled to Pad 3.	Unknown. Spill discovered during Environmental pad inspection.
2/5/92	1992-IR-87244	Well Pad F	Crude Oil	20.00	A leak in a 3/4" by-pass line allowed crude to escape onto the pad. All contaminants were scrapped up with shovels and placed in plastic bags and were hauled to Arco Pad 3 lined oily waste pit. The 3/4" by-pass line was removed and 3/4" weld-o-lets plugged.		All contaminants were hauled to Arco Pad 3 lined oily waste pit.	A leak in a 3/4" bypass line allowed crude to escape onto pad.
10/20/92	1992-IR-97814	Central Gas Facility	Diesel	20.00	Loose fitting on connections between tanks & heating system.	Metis/Cleanup		Loose fitting on connections between tanks & heating system.
4/24/92	1992-IR-97697	Drill Site 04	Methanol	20.00	A barrel was punctured by a forklift during pad maintenance.	Metis/Cleanup		A barrel was punctured by a forklift during pad maintenance.
6/17/90	1990-IR-96312	Flow Station 3	Diesel	20.00	Fuel truck was parked on a slope. Fuel leaked through vent.	YES -		Fuel truck was parked on a slope. Fuel leaked through vent.
5/3/00	2000-IR-94935	Well Pad G	MEG	20.00	While performing freeze protection work at well G-13, tank #2 on the pump unit was overfilled with methylene glycol (MEG). Investigation revealed that the operator had become distracted by other, high priority events occurring at the same time the tank was being filled. It was also determined that the high level alarm failed to activate.	Loader picked up all contaminated snow. Snow was taken to pad 3 with a dump truck.	Taken to ARCO pad 3	All gravel was scraped up and hauled to ARCO pad 3 on 5/6/00
11/7/94	1994-IR-98414	Drill Site 15	Methanol	20.00	A valve on a triplex pump failed. Clutch did not kick out.	A loader was used to remove the contaminated snow and gravel. - The gravel was washed and reused. The snow was melted and reused as freeze protect.		A valve on a triplex pump failed. Clutch did not kick out.
8/7/91	1991-IR-97526	Drill Site 15	Diesel	20.00	Valve on holding tank left opened causing sump to overflow.	YES -		Valve on holding tank left opened causing sump to overflow.
7/25/91	1991-IR-97504	Flow Station 3	Diesel	20.00	Exact cause unknown. Filters and gaskets found in the area.	YES -		Exact cause unknown. Filters and gaskets found in the area.
2/20/92	1992-IR-87960	WSW	Seawater	20.00	An unknown truck left the sea water truck loading station leaking water on the ground, possibly through a leaking valve. A line of dirty, frozen ice was found from the truck loading station to West Dock road, and then on toward the Spine road. The Environmental department was called and they handled the cleanup. There were at least three possible trucks, from two differerent companies, that could have caused the spill.		Contaminated material taken to T-pad.	Appears that valve to vac truck was not closed completely.
6/8/98	1998-IR-98746	COTU Facility	Sewage	20.00	Sewage spilled when discharge line of pump developed leak.	"A waste treatment sewage truck was utilized to suck up the sewage off the pad. The area was rinced with fresh water and again the liquids were sucked off the pad. Samples were taken for fecal coliform and commmensal and based on the results, it was d		Sewage spilled when discharge line of pump developed leak.
10/26/92	1992-IR-97818	Drill Site 16	Produced Water	20.00	Choke on CTU started to leak during a wireline operation.	Metis/Cleanup		Choke on CTU started to leak during a wireline operation.
3/8/91	1991-IR-97646	Drill Site 05	Diesel	20.00	"Unknown, footprint of spill suggests from drilling rig."	YES -		"Unknown, footprint of spill suggests from drilling rig."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/1/98	1998-IR-90143	Drill Site 06	Seawater	20.00	Immediately following a safety meeting addressing test procedures, the derrickman was sent to the cellar to open the outer annulus valve for a routine casing pressure test. Needed at another area, the derrickman was relieved by a floor hand instructed to watch the open valve for flow during the test. After arriving, the floor hand checked the inner annulus valve and opened it, thinking it was the valve required to be open during the test. The inner annulus was lined up via flex hose to a slop tank beside the well cellar. After a brief interval of pumping and no pressure response, the operation was shut down to investigate possible leak sources. The floor hand then notified the driller that the slop tank had overflowed into the cellar. Approximately 20 gallons of seawater (15 of which contained in the wellhead skirt) had spilled. The five uncontained gallons spilled into the well cellar. The spill was immediately cleaned up and proper notifications followed. Lesson Learned: Insure good communication and understanding of instructions when relief personnel take over jobs.		Contaminated material was taken to ARCO Pad 3 for disposal.	A tank was over-filled at ARCO Drill Site 6 in the EOA.
11/1/92	1992-IR-97822	Drill Site 09	Seawater	20.00	Gasket on filter pot leaked while pumping from tanker.	Metis/Cleanup		Gasket on filter pot leaked while pumping from tanker.
1/24/90	1990-IR-97091	Drill Site 05	Crude Oil	20.00	Slop oil trailer overfilled during bleeding operation.	YES -		Slop oil trailer overfilled during bleeding operation.
3/5/90	1990-IR-97243	Drill Site Maintenance	Methanol	20.00	Methanol camp out of overflow pipe when truck stopped.	YES -		Methanol camp out of overflow pipe when truck stopped.
4/26/91	1991-IR-97311	Drill Site 17	Seawater	20.00	Operator pumped into a well while valve was closed.	YES -		Operator pumped into a well while valve was closed.
11/1/93	1993-IR-97392	Flow Station 1	Diesel	20.00	Leaked from mobile heater when snow built up on it	Metis/Cleanup		Leaked from mobile heater when snow built up on it
4/22/93	1993-IR-97902	Seawater Injection Plant	Seawater	20.00	Overfilled tanker due to incorrect meter reading.	Metis/Cleanup		Overfilled tanker due to incorrect meter reading.
4/10/90	1990-IR-96960	Flow Station 1	Crude Oil	20.00	Discharged from pipeline when flange was removed.	YES -		Discharged from pipeline when flange was removed.
7/14/93	1993-IR-98006	Central Gas Facility	Diesel	20.00	Hose on diesel tanker separated from connection.	Metis/Cleanup		Hose on diesel tanker separated from connection.
6/12/92	1992-IR-97708	Drill Site 06	Crude Oil	20.00	While Bleeding down well overflowed sloptrailer.	Metis/Cleanup		While Bleeding down well overflowed sloptrailer.
1/9/91	1991-IR-97218	Drill Site 03	Methanol	20.00	Leaked from supply tank while pumping into line.	YES -		Leaked from supply tank while pumping into line.
1/5/90	1990-IR-96954	Well Pad, Roads	Diesel	20.00	Level control switch failed and tank overflowed.	YES -		Level control switch failed and tank overflowed.
8/8/90	1990-IR-97071	COTU Facility	Diesel	20.00	Tanker overfilled while taking on fuel at COTU.	YES -		Tanker overfilled while taking on fuel at COTU.
8/18/91	1991-IR-97316	C Pad	Lube Oil	20.00	Undetected release from drums in storage area.	YES -		Undetected release from drums in storage area.
2/16/92	1992-IR-97873	Drill Site 04	Methanol	20.00	A flange leak develped during annulus pumping.	YES -		A flange leak develped during annulus pumping.
2/25/94	1994-IR-98439	MCC Fuel Dock	Diesel	20.00	Supply line broke from stress during fueling.	Absorbent pads and a bobcat were used to remove the contaminated material. - The contaminated snow was placed in the dedicated recycle snow dumpster for future recycle at FS1. The absorbents were placed in the oily waste dumpster for future incineration		Supply line broke from stress during fueling.
5/28/91	1991-IR-97296	COTU Facility	Diesel	20.00	Valve on bottom of tank froze and split open.	YES -		Valve on bottom of tank froze and split open.
8/11/94	1994-IR-98363	Drill Site 16	Seawater	20.00	Swivel joint rupture on coiled tubing unit.	Loader and dump truck was used to pick up contaminated gravel. - Contaminated gravel was hauled to Pad 3 on 8/12/94 to hold in the West Pit for future remediation.		Swivel joint rupture on coiled tubing unit.
7/24/95	1995-IR-98277	Drill Site 02	Diesel	20.00	Fuel tank was overfilled on a fuel trailer.	Metis/Cleanup		Fuel tank was overfilled on a fuel trailer.
2/9/91	1991-IR-97615	Seawater Injection Plant	Seawater	20.00	Valve vibrated open while loading material.	YES -		Valve vibrated open while loading material.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/13/90	1990-IR-97168	Drill Site 04	Produced Water	20.00	Material leaked out of manifold building.	YES -		Material leaked out of manifold building.
2/27/90	1990-IR-97232	Drill Site 09	Diesel	20.00	Broke fuel line fitting while tightening.	YES -		Broke fuel line fitting while tightening.
5/4/90	1990-IR-96901	U-21 (EOA Building)	Lube Oil	20.00	"Unknown, suspect leaked from a tanker."	YES -		"Unknown, suspect leaked from a tanker."
7/30/00	2000-IR-95195	Well Pad B	Crude Oil	20.00	The B-Pad Night Operator, while taking well readings, went into the B-7 wellhouse and discovered crude oil being released from the grease zert on the surface safety valve. The Pad Operator immediately shut in the well and then contacted the non-emergency spill hotline to report the incident. The BPX Environmental Department was notified and spill clean up activities were initiated. An investigation into the grease zert failure revealed that the check valve, located in the surface safety valve, leaked by and that the teflon o-ring in the zert had failed allowing crude oil to be released into the wellhouse. The spill fluids were contained on the inside of the wellhouse. There was no fluid released onto the pad or tundra.	High pressure hot water was used to clean walls and tree. Gravel was removed with a super sucker. Sorbents were used to hand wipe some areas.	All class II materials were removed with the gravel and taken to Drill site 4 Grind and inject. Sorbent material was disposed of in NSB oily waste dumpster.	Repairs have been made to grease zert.
1/29/93	1993-IR-100899	Point MacIntyre	Diesel	20.00	Left open a needle valve on flowline.	Metis/Cleanup		Left open a needle valve on flowline.
4/27/90	1990-IR-96892	Drill Site 17	Diesel	20.00	Leaked from a hammer union gasket.	YES -		Leaked from a hammer union gasket.
2/4/93	1993-IR-98093	PBOC	Lube Oil	20.00	Hydraulic line fitting failed.	Metis/Cleanup		Hydraulic line fitting failed.
9/29/90	1990-IR-97120	Drill Site 12	Methanol	20.00	Packing nut backed off pump.	YES -		Packing nut backed off pump.
3/7/91	1991-IR-97645	Drill Site 09	MEG	20.00	Hose ruptured on sideboom.	YES -		Hose ruptured on sideboom.
11/28/90	1990-IR-97188	Drill Site 03	Diesel	20.00	Overfilled slop trailer.	YES -		Overfilled slop trailer.
10/11/91	1991-IR-97554	Flow Station 2	Produced Water	20.00	Overfilled mobile tank.	YES -		Overfilled mobile tank.
10/14/91	1991-IR-97555	J Pad	Methanol	20.00	Overfilled mobile tank.	YES -		Overfilled mobile tank.
12/11/00	2000-IR-95669	Drill Site 07	Methanol	20.00	A Dowell coil tubing crew was milling out a restriction on well #1 at DS-7. While returning the bottom hole assembly to surface (BHA), the crew spilled approximately 20 gallons of methanol on the pad the coil parted at the cross over connection. The crew stopped retreiving the coil at approximately 100 feet from surface and the returns were verified for methanol to ensure the surface piping was freeze protected. Once methanol was verified, the pump rate was reduced to 0.8 bpm. The crew then discussed that they had been tagging the no go at +20 feet on the coil counter. The P.E. and Coil Operator began watching the weight indicator to determine when the BHA was at surface. There was no indication of a weight change and the coil connector pulled through the brass in the injector pack off. This resulted in the BHA being pulled into the chains. The cross over below the connector parted and the coil fell to the back deck of the unit. Approximately 20 gallons of methanol was released from the coil. The ground crew saw the coil part and fall to the deck of the unit. They radioed the Ops cab and then closed the master valve to secure the well, as well as choke to isolate the methanol tank. They then secured the coil at the horse head with a pipe block as an extra precaution in addition to the reel brake that had already been applied. The majority of the methanol was contained to the spill containment dikes located at the back of the coil unit, however some of the fluid was spilled onto the rig mats and snow covered pad. There were no injuries as a result of this incident. Personnel are removed from the area when coil is being returned to surface. Investigations into the circumstances surrounding this incident revealed that the inner diameter (I.D.)of the brass insert was 2.05" when installed new. After the incident the I.D. of the brass was measured to be between 2.188" to 2.238". The weld on the cross over had originally been ground to 2.125" at the onset of the operation to permit the use of 2" coil in the 2.875" liner with a restriction of 2.34".	Methanol soaked snow was shoveled into bags, and dumped into tank for freeze protect fluids. Used Sorbents and rags to mop up area around spill, and clean out containment pan. After rig moved all contaminated gravel was picked up and disposed of at G & I.	Methanol soaked snow placed in freeze protect tank. Sorbents and rags will be shipped out as Haz-waste. Gravel disposed of at G & I..	Spill 100% cleaned up.
10/2/91	1991-IR-97581	Drill Site 16	Diesel	20.00	Overfilled fuel tank.	YES -		Overfilled fuel tank.
3/21/92	1992-IR-87257	Well Pad A	Methanol	20.00	Source of the contamination is unknown. Contaminated material was scraped up with a bucket loader and material taken to A3W2 melt tank.		Contaminated material taken to A3W2 melt tank.	Under investigation.
12/7/90	1990-IR-100751		MEG	20.00	Pump seal failed.	YES -		Pump seal failed.
10/16/90	1990-IR-97139	Drill Site 15	Seawater	20.00	Valve stuck open.	YES -		Valve stuck open.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/4/91	1991-IR-97644	J Pad	Methanol	20.00	Overfilled tank.	YES -		Overfilled tank.
8/17/89	1989-IR-96753	Drill Site 11, Not specified	Diesel	20.00	Released when union was removed due to lack of installing bleed valve.	Not specified	Not specified	Not specified
7/11/89	1989-IR-96715	Drill Site 09, Not specified	Crude Oil	20.00	Vacuum truck valve opened with positive pressure on hose.	Not specified	Not specified	Not specified
11/21/89	1989-IR-96852	C Pad, Not specified	Methanol	20.00	Leaked from tanker valve caused by faulty stem packing.	Not specified	Not specified	Not specified
11/22/89	1989-IR-96854	Drill Site 03, Not specified	Fresh Water	20.00	Camlock came loose and material leaked out of tank.	Not specified	Not specified	Not specified
12/9/89	1989-IR-96871	Pad 3, Not specified	MEG	20.00	Hose fell on valve handle and caused it to open.	Not specified	Not specified	Not specified
6/2/89	1989-IR-96663	Drill Site 14, Not specified	Diesel	20.00	Suction valve vibrated loose on Triplex pump.	Not specified	Not specified	Not specified
12/6/89	1989-IR-96867	Drill Site 03, Not specified	Diesel	20.00	Trailer broke from hitch and rolled of road.	Not specified	Not specified	Not specified
8/8/89	1989-IR-96745	Central Gas Facility, Not specified	Methanol	20.00	New pump on truck leaked.	Not specified	Not specified	Not specified
7/30/89	1989-IR-96739	Drill Site 02, Not specified	Diesel	20.00	Overfilled slop oil tank.	Not specified	Not specified	Not specified
8/2/89	1989-IR-96741	Not specified	Diesel	20.00	Fuel nozzle stuck open.	Not specified	Not specified	Not specified
12/8/89	1989-IR-96869	Drill Site 07, Not specified	Diesel	20.00	Forgot to unhook hose.	Not specified	Not specified	Not specified
10/25/87	1987-IR-100703	Not specified	Diesel	20.00	Hose connection loo	Not specified	Not specified	Not specified
8/5/88	1988-IR-96406	C Pad, Not specified	Lube Oil	20.00	Punctured bbls leak	Not specified	Not specified	Not specified
1/28/88	1988-IR-96524	COTU Facility, Not specified	Diesel	20.00	Tank overfill - ice	Not specified	Not specified	Not specified
6/8/87	1987-IR-96218	Drill Site 03, Not specified	Crude Oil	20.00	Found stained grave	Not specified	Not specified	Not specified
7/4/88	1988-IR-96452	Drill Site 07, Not specified	Diesel	20.00	Unstable tank spilt	Not specified	Not specified	Not specified
6/8/87	1987-IR-96215	Drill Site 11, Not specified	Crude Oil	20.00	Found stained grave	Not specified	Not specified	Not specified
7/14/86	1986-IR-95961	Drill Site 18, Not specified	Crude Oil	20.00	Crd in flowln moved	Not specified	Not specified	Not specified
7/15/85	1985-IR-95929	Flow Station 1, Not specified	Crude Oil	20.00	Backflowed to truck	Not specified	Not specified	Not specified
9/13/87	1987-IR-100697	Lisburne Production Center, Not specified	Diesel	20.00	Relief valve failur	Not specified	Not specified	Not specified
8/19/87	1987-IR-96236	Seawater Injection Plant, Not specified	Crude Oil	20.00	Overflowed onto pad	Not specified	Not specified	Not specified
12/8/85	1985-IR-95941	COTU Facility, Not specified	Diesel	20.00	Shutoff switch bad	Not specified	Not specified	Not specified
9/27/88	1988-IR-96518	Drill Site 05, Not specified	Diesel	20.00	Overflow bad level	Not specified	Not specified	Not specified
7/19/87	1987-IR-96203	Drill Site 17, Not specified	Crude Oil	20.00	Connection failure	Not specified	Not specified	Not specified
3/24/84	1984-IR-95921	Drill Site 18, Not specified	Crude Oil	20.00	Shut-in valve leak	Not specified	Not specified	Not specified
3/10/88	1988-IR-96606	Drill Site 11, Not specified	Crude Oil	20.00	Sprayed from vent	Not specified	Not specified	Not specified
4/26/89	1989-IR-96628	Drill Site 16, Not specified	Crude Oil	20.00	Valve left closed	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/10/88	1988-IR-96481	Flow Station 2, Not specified	Lube Oil	20.00	Faulty valve leak	Not specified	Not specified	Not specified
11/28/87	1987-IR-96387	Drill Site 13, Not specified	Crude Oil	20.00	Union came loose	Not specified	Not specified	Not specified
2/14/88	1988-IR-96595	Drill Site 18, Not specified	Lube Oil	20.00	Barrel punctured	Not specified	Not specified	Not specified
4/3/89	1989-IR-100876	Not specified	Diesel	20.00	Tank overfilled	Not specified	Not specified	Not specified
12/19/88	1988-IR-96581	J Pad, Not specified	Methanol	20.00	Tank overflowed	Not specified	Not specified	Not specified
4/15/88	1988-IR-96257	Drill Site 04, Not specified	Diesel	20.00	Heater failure	Not specified	Not specified	Not specified
11/6/89	1989-IR-96810	Drill Site 15, Not specified	MEG	20.00	Hose ruptured.	Not specified	Not specified	Not specified
11/3/88	1988-IR-96546	Drill Site 16, Not specified	Crude Oil	20.00	Mist carryover	Not specified	Not specified	Not specified
5/27/87	1987-IR-96188	Drill Site 01, Not specified	Crude Oil	20.00	Leaking Pump	Not specified	Not specified	Not specified
12/16/88	1988-IR-96575	Drill Site Maintenance, Not specified	Methanol	20.00	Valve leaked	Not specified	Not specified	Not specified
5/18/83	1983-IR-96110	Surfcoat Pad, Not specified	Diesel	20.00	Leaking pipe	Not specified	Not specified	Not specified
7/30/86	1986-IR-95966	Flow Station 1, Not specified	Crude Oil	20.00	Flare event	Not specified	Not specified	Not specified
1/24/88	1988-IR-100722	Not specified	Diesel	20.00	Valve leak	Not specified	Not specified	Not specified
5/29/00	2000-IR-94995	GC-2 Pad	MEG	20.00	While making normal rounds an MEG leak was discovered on a heat trace tubing line outside of Skid 489. The tubing was damaged by falling snow/ice from the roof of Skid 489. Hot MEG was spraying from a crack in the tubing where the ice had impacted it. The heat trace line was isolated and the leak stopped.	Fluids were vaced up with a Power Vac. Snow was removed with hand tools.	Collected fluids have been reused. The affected snow and gravel was taken to Pad 3.	None
7/8/00	2000-IR-95129	Drill Site 02	Diesel	20.00	Triplex pump was left on Drill Site 2 with hose pressure testing hose attached. The trailer was not level resulting in 20 gallons of diesel leaking out. Wireline crew released the triplex on 7/7 with no noted spill. Halliburton slickline crew had serviced the well on 7/8 and reported no spill. Company representative noted spill on 7/8 when dispatched to remove pump from location.		Contaminated gravel collected and sent for remediation/disposal at Pad 3.	
3/26/00	2000-IR-94788	Well Pad K	Diesel	20.00	A 20 gallon diesel spill occurred at K-Pad, well #01, during an HB&R freeze protection operation. HB&R was supporting Halliburton while performing a leak detection log. At job completion, HB&R rigged up to Halliburton's lubricator, and used their bowie pump, to evacuate any fluids prior to rigging down the wireline unit. Halliburton rigged down and left location. HB&R remained on site to freeze protect the well with diesel. HB&R began using their high pressure pump to freeze protect the well. During the pumping operation, the crew noticed diesel being released from the bowie pump into the pump room of the unit. The crew immediately shutdown the operation to investigate the situation. When the crew left the operations cab they noticed a diesel spill under the unit. The crew immediately contacted the HB&R Supervisor, the Pad Operator and WSA Safety. BPX Environmental was contacted to assess the spill and the contaminated snow was recovered. An investigation was conducted by WSA Management and revealed that the operator failed to close the suction valve that isolates the low pressure suction pump from the high pressure discharge pump. During the freeze protection operation, fluid was diverted to the suction pump (rated at 300 psi) and the gasket ruptured at approximately 800 psi. Diesel sprayed into the pump room, out the vac truck access door and onto the snow covered pad. The spill was contained to the gravel pad. The crew had been working 8 hours at the time of the incident. The crew has not been working excessive overtime, does not believe that fatigue played a factor in this incident. They also stated that they were not in a hurry to complete the operation.	Affected snow was scraped up with a loader and hand tools.	Material was placed in melt bins for product recovery and reuse.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/14/00	2000-IR-95731	GC-2 Oil Section	MEG	20.00	At 17:02 at GC-2 Skid-31 we had a firewater deluge dump caused by a failure of the temperature sensing element on the firewater air supply system. The system requires air pressure to maintain the firewater release valve in the closed position. A old soldier connection on one of the sensing units located on the air line in skid-31 failed causing the air to bleed off and open the isolation valve which allowed the firewater to dump into the skid. Enough water dumped to drain out the floor P-Trap and out to the deluge pit at the back of the facility. There is an MEG charge in the P-Trap which was pushed by the firewater out to the unlined pit which becomes a spill. Jamie, please record in Otis that I verbally notified Wendy Mahan at AOGCC on Friday, December 15th of this event described below after being notified Thursday (Dec 14th) late evening (around 5:30) from the field (mike McDaniel). Wendy was not available, but I gave her details in a voice mail. I didn't record a time for this call, but I believe it was around 4pm that afternoon. Geoff Kany was also in the room when I made the notification. Thanks for your assistance. Janet Platt (email 1/4/01).	Clean up will occur in spring by dewatering the pit.	The fluids will be taken to Pad 3 class 1 injection.	
7/13/96	1996-IR-89595	Well Pad W	Seawater	20.00	Coiled tubing on a Camco Coil Tubing Unit fractured while running into the well. Well and coiled tubing had 700 psi pressure with clean seawater inside the post well-kill operation. Seawater was sprayed onto the reel housing which then flowed onto the pad.		The contaminated gravel was taken to Arco Pad 3.	
2/7/05	2005-IR-1234531	Well Pad L, Tri-plex #9530 on L-200, GC2/SAT	Methanol	19.00	At 2:00 A.M. employee went out to portable tri-plex and pumped 3 bbls of meoh down I/A. The tri-plex was in good working order and had no visible sign of leaks. At 2:30 employee again was to pump meoh, when he walked up to tri-plex he noticed that the sump was full and had overflowed into the spill containment under the tri-plex. A small amount had also landed on the ground next to the spill containment.	The liquids in the sump were transferred into a 55-gallon drum for transporation. The contaminated snow was removed with hand tools and placed in oily waste bags for transportation. Residual liquids were wiped up with absorbent material.	The contaminated liquids and snow will be melted down and reused on an approved freeze protection job. The contaminated absorbent material and oily waste bags have been taken to the Haz-Waste Process Facility and will be shipped of site.	
2/3/92	1992-IR-97848	Drill Site 13	Crude Oil	19.00	Loss of air pressure in grease injection system of wellhead.	YES -		Loss of air pressure in grease injection system of wellhead.
3/1/87	1987-IR-96245	Seawater Injection Plant, Not specified	Methanol	19.00	Opened incorrt valv	Not specified	Not specified	Not specified
3/30/87	1987-IR-100709	Lisburne Production Center, Not specified	Lube Oil	19.00	Faulty valve	Not specified	Not specified	Not specified
1/2/03	2003-IR-407077	L-4, L-4 # 12	Methanol	18.00	While performing hot oil operations on L4-12, hot oil unit operator shutdown unit while drillsite operator switched valves inside manifold building, leaving the hot oil unit open to an external tank. The hot oil operator opened the tank return valve to allow for fluid expansion. While hot oil unit was shutdown, the mission pump was left partially engaged. The operator did not double block suction valve per procedure. Upon recommencing pump operations, tank high level alarms went off. Operator shutdow pumping operations and then did a visual inspection. Upon visual inspection, 20 gallons of crude/methanol was found to have overflowed through the tank vent tubes.	Loader, and dump box were used to remove contaminated material.	Material was brought G&I for disposal.	Notifications were mak to all agencies.
9/12/01	2001-IR-147419	Spine Road, Spine road	Diesel	18.00	A B-70 hauling gravel on spine road had a fuel injector line seperate causing diesel fuel to spray onto the road. The fuel also ran into the oil pan causing it to overflow a mixture of diesel and motor oil.	The spray on the road was bladed into a wind row using a grader. A loader picked up the wind row and placed the contaminated gravel into a dump truck.	Contaminated grave was taken to T-pad storage pit and will be thermally remediated at a later date.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/2/06	2006-IR-1999259	Well Pad Z, NE corner of Well Pad Z, GC2/SAT	Hydraulic Fluid	18.00	8 gallons of hydraulic fluid spilled from the rear trailer of a double Maxihaul gravel hauling unit around 9PM on October 2, 2006. The double Maxihaul unit was in the process of unloading the 30 cubic yards of gravel in the trailer bed when the spill occurred. A total of 18 gallons leaked out of the hydraulic system, 8 gallons spilled onto the pad while 10 gallons were captured in spill containment once the spill was discovered. A double Maxihaul unit consists of a tractor pulling an end dump trailer attached with a king pin. The front trailer is equipped with a hitch on the back where a dolly trailer is attached. The rear en dump trailer is attached with a king pin to the dolly. The hydraulic system goes from the tractor to the two end dump trailers and dolly trailer through a system of flexible hydraulic hoses connected with quick connects. The two end dump trailers are equipped with single acting rams to lift the bed to dump the gravel load. When the gravel load is dumped the hydraulic ram is pressurized and extends in four steps, tipping the trailer gravel bed. The bed is let down by relieving the hydraulic pressure, allowing the hydraulic oil to return to the tank by the gravity force from the bed. Thus the hydraulic hoses are under the highest pressure when the bed is raised. The hose broke while the bed was being raised and the hydraulic pressure was elevated. Once the hydraulic hose broke the gravity pressure from the bed forced all the hydraulic oil in the rear trailer and ram to flow out. It was the hydraulic hose from the back of the front trailer to the front of the dolly that broke. This hydraulic hose will experience quite a bit of flexing when the travel turns and especially when the rear trailer is ¿jack knifed¿ for unloading. AIC rents this double Maxihaul unit from their sister company Peak. The trailers were inspected by AIC mechanics in their Deadhorse Shop before they started the project. The units are inspected by the Teamster driver before each shift. The AIC Mechanic and Oiler also inspects the units during the two hours between shifts (AIC is running both day and night shift). AIC typically takes the units into the Deadhorse Shop for oil change every 250 hours. The Mechanics will inspect the hoses then as well. Hoses are not replaced at regular intervals, but are replaced based on inspection results. AIC¿s inspection practices are similar to BPXA¿s. BP¿s divers/operators will inspect their equipment before every shift and have a PM every 300 hours. BP¿s equipment also has an annual inspection. AIC has decided to replace all the hydraulic hosed on the front of the dollies used on this project.	Sorbents were laid down to collect standing liquid. A loader and hand tools were used to removed contaminated gravel.	The gravel was taken to Pad 3. The sorbents were taken to an oily waste dumpster.	
2/28/05	2005-IR-1260340	Well Pad D, D Pad, GC1	Hydraulic Fluid	18.00	Blower #011 experienced an O-Ring failure on the high pressure hydraulic supply hose at the blower end. Before the unit could be shut down 18 galllons of hydraulic oil leaked onto the snow covered gravel pad. SRT was notifed. Spill cleaned up.	A loader and shovels were used to clean affected snow. Sorbent materials were used to soak up liquids under snow blower unit.	The contaminated snow was taken to T-pad storage facility.	
3/9/95	1995-IR-98572	Drill Site 03	Methanol	18.00	"Spill was discovered on the pad. Source of spill presumed to be methanol trailer tank, but exact cause is unkown."	"Loader, hand shovels, and scraper were used to pick up contaminated snow and gravel. Dump truck removed material from site. - Contaminated snow and gravel were taken to L Pad. Melted snow/methanol will be re-used for freeze protection fluid. Gravel		"Spill was discovered on the pad. Source of spill presumed to be methanol trailer tank, but exact cause is unkown."
7/6/99	1999-IR-98810	Main Construction Camp (MCC)	MEG	18.00	"Coupling on 2"" return heating supply line broke. 30 gallons spilled on pad and 30 gals inside building."	SRT used a clean vac truck and vac. up product and gave to Wells Wupport for reuse for freeze protect.	Sent to Wells Support for reuse for freeze protect.	"Coupling on 2"" return heating supply line broke. 30 gallons spilled on pad and 30 gals inside building."
7/14/91	1991-IR-97493	Drill Site 11	MEG	18.00	Radiator hose on Boom truck ruptured.	YES -		Radiator hose on Boom truck ruptured.
12/27/89	1989-IR-96304	Drill Site 11, Not specified	Diesel	18.00	Leaking valve resulted in tank overflowing.	Not specified	Not specified	Not specified
3/25/05	2005-IR-1295997	Drill Site 11, DS 11 Well #37, FS2/COTU	Hydraulic Fluid	17.50	On 3/25/05 at approximately 1505, water truck # 85061 had a hydraulic pump fail resulting in 17.5 gallons of hydraulic oil being spilled to the pad surface. The water truck was at well #37 on DS 11 performing a snow wash job. The water truck operator was about 60 feet from the truck watching the VECO maintenance employee who was manning the water hose. The water hose began to vibrate and the operator turned around to see what could be causing it. He noticed the puddle of hydraulic fluid and immediately shut the truck down. The operator notified dispatch and proper notifications were made. SRT arrived on site and cleaned up the spilled material. A mechanic was dispatched to the scene and made the necessary repairs before the truck was driven back to VECO Base.	Loader, Grader, and dump box were used to remove contaminated snow.	Material was brought to T-pad for disposal.	
4/13/02	2002-IR-201815	Pipeline Right-of-Way, Pipeline road near Little Putt River	Hydraulic Fluid	17.00	Operator was engaged in snow removal activities along pipeline road near Little Putt Creek, during which a hydraulic system fitting began releasing a fine mist of hydraulic fluid onto the road. Due to the wind direction and operational direction of the snowblower, the release of fluid was not apparent to the operator until he changed directions and fluid blew into his line of sight and onto the unit's windshield.	Material from roadway recovered with loader and placed into dump box for disposal. Material from snow covered tundra recovered with hand tools and placed into dump box for disposal.	196 cu. yrds of material taken to pad 3 for disposal.	Initial report submitted on 4/13/02

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/30/02	2002-IR-193713	Well Pad A, A-Pad Access Road	Hydraulic Fluid	17.00	Sealed failed on a Watson 3000 Air Drill while drilling on A-pad LDF ice road. Equipment was operated and owned by VECO Base. Hydraulic fluid spilled due to failure of seal failure.	All contaminated snow and ice was removed with hand tools and placed in oily waste bags for transportation. Sorbents were placed in oily waste bags for disposal at the WOA solid waste facility.	All of the contaminated snow will be melted down and recycled. All the hydraulic oil in containment was recovered with mechanics truck to be reused. All absorbent was placed in an approved oily waste dumpster for disposal.	None
7/15/02	2002-IR-265573	GC-2, GC-2 pad outside skid 453, adjacent to the spicer tank containment area.	Produced Water	17.00	During the final stages of blinding the C slug catcher, a flange was being parted to drain any remaining product on the outside oil end of the separator. Methods/measures were in place to contain the product when a sudden rush of liquid/sludge came out of the flange. The majority of it went into secondary containment, but approximately 2 gallons went outside containment onto the pad. The release was controlled by retightening the flange.	The contaminated gravel inside and outside of the containment pit will be removed with hand tools and heavy equipment.The affected pipe work and scaffolding will be wiped down with absorbent pads and cleaning solutions.	The contaminated liquids were placed back into tank it was intended to be in. The contaminated gravel will be taken to Grind & Inject Facility for disposal.	
8/2/92	1992-IR-97373	COTU Facility	Diesel	17.00	A fuel line ruptured on an air compresor as it was being towed over a gravel berm.	Metis/Cleanup		A fuel line ruptured on an air compresor as it was being towed over a gravel berm.
2/19/02	2002-IR-169822	Flow Station 1, Flow Station 1	Diesel	16.00	While making routine checks of outside area (22:00), the Operator found a spill inside / outside Slop Oil Tank module 4921. Apparently, a O Ring on the off loading line strainer inside the module was not fully seated. While the last truck was off loading, this allowed the fluid to spill out of the strainer onto the floor. Diesel /Crude / Water spilled inside the module and some also spilled to the containment pit outside through cracks in the module floor. The spill was reported to 5700 promptly and cleanup inside the module was completed by Operations.	Recovered materials with Vac Truck and hand tools.	4 cubic yards and 365 barrels of material taken to Pad 3 for disposal.	Initial report submitted on 2/19/02.
5/27/06	2006-IR-1847516	Well Pad L, GPB, south West side of L-Pad., GC2/SAT	Drilling Mud	16.00	On 5/27/06 at approximately 17:00 an employee was working out at L-Pad getting the pad ready for drilling rig 9ES to move on. A lowboy tractor came in from 9ES which was just finishing up on S-pad with materials to be off loaded. The load consisted of approximately 20 pallets of drilling oil and other products. The employee was operating a 966G Loader unloading the pallets and then placing them onto a rig mat. The loader operator had moved 4 pallets and placed them on the mat, when he went to move the 5th pallet it was placed onto the mat then the loader operator decided to move it over a couple of inches, he pulled his forks out of the pallet then moved his forks to the side and was going to push the pallet with the forks. Unknowingly his forks were not low enough so when he went to push the pallet the fork pushed up against one of the drums on the pallet and the fork punctured the drum causing an approximate 4¿ hole. The loader operator then moved the forks back letting the material spill onto the rig mat then to the ground. The loader operator immediately realized what had happened as did the truck driver who was putting straps away on his truck and saw what had happened but not in time to stop the loader operator. Both the loader operator and the truck driver proceeded to try and stop the leak and placed containment under the leak. The employees' foreman pulled up on scene and also assisted in mitigating the release. The loader operator called dispatch and SRT responded. SRT estimated the spill to be 16 gallons of drilling fluid with 8 of that going into containment.	Standing liquids were pumped into a drum. Affected gravel was shoveled into oily waste bags. Oily absorbents were placed into oily waste bags.	Contaminated gravel and all fluids will be taken to Pad-3 disposal facility. Absorbent pads have been taken to an approved North Slope Borough dumpster.	
7/16/94	1994-IR-100620	Point MacIntyre	Diesel	16.00	Blind flanges leaked during hydrotest operation.	Sorbents were used to soak up standing liquid. Hand shovels were used to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/17/94 to hold for future remediation.		Blind flanges leaked during hydrotest operation.
5/24/04	2004-IR-913564	Well Pad R, R-20 wellhouse, GC2/SAT	Crude Oil	15.00	While making his daily rounds, the operator discovered crude oil in the cellar of well R-20. No source was apparent. Since this well is an injector, the source is a mystery.	The contaminated water and crude oil has been removed with a Vac truck.	Contaminated water and crude oil have been taken to Pad-3 disposal facility.	The Down hole diagnostics team did the following actions to this well. A Mechanical intertegrity test of the inner anulas to 2500lbs.,(passed). A super sucker was used to remove the gravel to the top of the conductor. A cellar liner was installed. The initial report was sent in on 05/25/04

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/6/07	2007-IR-2183216	Well Pad V, In the cellar of the well., GC2/SAT	Crude Oil	15.00	Crew was in the process of performing an MIT/OA to 2000 psi. After the first test the crew checked the pressure and noticed a that the pressure had significantly dropped. The OA was pressured up again, but they were only able to get the pressure up to 1800 psi. The crew then decided to obtain a leak rate (per procedure), and it was during this operation that they heard a hissing noise and noticed fluid coming up and out of the conductor. The work was immediately shut down and the spill reported.	The contaminated gravel was removed using a hot water flush, a super sucker to remove gravel and hand tools.	The contaminated water and gravel has been taken to the Grind & Inject Facility.	This well cellar had a conrcrete floor and steel cellar walls. On 3/12/07 additional well work was being performed and approximately 21 gallons of brine came out of the casing and spilled into the well cellar. Material was removed using a vac truck.
4/20/06	2006-IR-1804022	Seawater Treatment Plant, STP chemical tank area, FS1/SIP/STP	Seawater	15.00	A leak from a nipple on piping to level indicator for O2 storage tank.	Vacuumed up free liquid from module and used absorb pads to wipe floor.	Injected liquid into facility process. Contaminated absorbent was brought to the Hazwaste coordinator for shipping.	Note that Oxygen Scavenger was the actual material released to the module floor. This was not a choice in the drop-down menu for the report so 'seawater' was listed instead. Agencies were notified of release.
4/13/07	2007-IR-2227671	Drill Site 09, DS-9 well 11, FS2/COTU	Arctic Pac	15.00	Arctic pack contamination was found in the well cellar following a rig workover. The well had split surface casing that required the rig to circulate through the well cellar and to take cement returns into the existing cellar. following the repair, a herculite liner was removed from the bottom of the celler and the contamination found.	The contaminated gravel and Arctic Pack was removed from the well cellar with the use of a super-sucker vacuum truck and handtools.	The material went to G&I disposal facility for class II disposal.	The cleanup of this cellar was stopped at below 8 feet deep, where it was determined that we had reached the tundra level, and the cellar was back filled with clean gravel in accordance with an agreement with ADEC.
7/21/01	2001-IR-71776	Central Gas Facility, Central Gas Facility Module 4906	Therminol	15.00	Pump was pumping 400 degree F. Therminot 59 during normal operations when inboard tandem seal suddenly began leaking externally causing a spill of approximately 15 gallons. Spill was contained within the module. An instrument technician noticed the leak and allerted operators to shutdown the pump.	Recovered fluid around pump base by using a small pneumatic pump to pump back into system. Remaining residue recovered with absorbent and disposed of in approved oily waste container.	Residue recovered with absorbent and disposed of in approved oily waste container.	This information is being proveded to ADEC per 18 AAC 75.300. BPXA staff on the slope discussed the release with Mr. Sandel on July 22, 2001 and the spill was reported to Mr. DeRuyter on July 23, 2001.
3/12/03	2003-IR-457170	Well Pad C, on top and behind wellhouse C-17	Methanol/ Water	15.00	CTU #8 was preparing to pressure test. All surface lines and the wellhead were flooded. The wellhead indicator was at 35 psi when a discharge occurred and operation was shutdown. The discharge came from the packoff assembly on the injector and drained into the injector sump. 5 Gallons of methanol spilled to the back of the wellhouse. After returning the injector to the back deck, approximately 10 gal drained into the back deck sump containment The packoff was checked and replaced. The packoff was worn but not excessively. Temperature was around 25 below zero with windchill up to 52 below zero. Cell leader, Company Man, and SRT were notified QHSE and Safety Coach visited the site met with spill response team and held brief spill review meeting with everyone on location including a BP company rep.	Sorbent materials were used to capture material on sump area of Coil Tubing Unit. Shovels were used to clean affected snow behind well house.	The sorbent material was taken to the GPB haz-waste coordinator for proper disposal. The snow was collected and taken to the SRT melt tank at A3W2 on Santa Fe pad for recycle for freeze protection.	A spill review was held on the matter of using proper sorbent materials and initial clean up actions when dealing with Methanol. Also proper disposal options were discuss with crew.
4/21/02	2002-IR-246304	CC2A Ball Mill, CC2A	Crude Oil	15.00	During snow removal operations on the WOA the oily waste pit at the CC2A location had drifted over with a snow covering. In order to get to the pit and trim the material for disposal the snow cap had to be removed. As the snow was removed some of the oily waste material was also bucketed and dumped on the pad. Some of the material later sloughed off to the tundra. Upon discovery the material was tested by environmental and is being cleaned up by BP WOA SRT.	The contaminated gravel on pad has been removed with heavy equipment, hand tools and a super sucker. The tundra clean was done with absorbent pads used to skim oil on water and tundra. After review by tundra specialist and proper approval the tundra was burned and raked twice to remove residual contamination.	Released material meets Class II disposal criteria. All of the contaminated material has been taken to the Grind and Inject facility. Absorbent pads and boom have been disposed of in an oily waste dumpster.	Passive wild life hazing equipment was set up immediately along with a site delineation. Boom was placed to prevent further tundra migration of the spilled product.
4/21/02	2002-IR-246304	CC2A Ball Mill, CC2A	Drag Reducing Agent (DRA)	15.00	During snow removal operations on the WOA the oily waste pit at the CC2A location had drifted over with a snow covering. In order to get to the pit and trim the material for disposal the snow cap had to be removed. As the snow was removed some of the oily waste material was also bucketed and dumped on the pad. Some of the material later sloughed off to the tundra. Upon discovery the material was tested by environmental and is being cleaned up by BP WOA SRT.	The contaminated gravel on pad has been removed with heavy equipment, hand tools and a super sucker. The tundra clean was done with absorbent pads used to skim oil on water and tundra. After review by tundra specialist and proper approval the tundra was burned and raked twice to remove residual contamination.	Released material meets Class II disposal criteria. All of the contaminated material has been taken to the Grind and Inject facility. Absorbent pads and boom have been disposed of in an oily waste dumpster.	Passive wild life hazing equipment was set up immediately along with a site delineation. Boom was placed to prevent further tundra migration of the spilled product.
1/27/04	2004-IR-756461	Pad 10, Pad 10, Non Process Area	Methanol	15.00	A spill took place while loading methanol trailer # 94648 at the methanol loading dock on pad-10. When the trailer was reaching 85-90% full the worker left the top hatch where he was observing the fill level. As he descended the stairs he slipped on the bottom step. He again slipped as he hurried to the loading building to turn off the operation. Before he could get into the building the tank began overflowing.	Loader, Bobcat were used to remove contaminated snow, and gravel.	Recovered snow is being melted for benifical reuse.	Walt Sandel of ADEC, as well as all other agencies were notified. NOTE: This material is was used on a freeze protect job at DS 16# 21. This is the Final report

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/10/96	1996-IR-89729	Drill Site 05	Drilling Mud	15.00	After loading on 11/8/96 a Veco Guzzler driver failed to close a valve coming from the overflow line on the cuttings tank. Failure to close this valve does not allow the overflow alarm system for the cuttings tank to work. During operations over approximately the next thirty six hours mud and cuttings emptied into the tank until it filled up and flowed out the overflow line into a 55 gallon drum which overflowed onto a small area of the pad. The spill was discovered soon after it began and clean-up operations began immediately.		All of the material is Class II and was transported to CC-2 for disposal into the injection well.	A worker failed to close an overflow valve on the cuttings tank. This allowed cuttings to overflow from the tank without setting off the high level alarm.
8/22/02	2002-IR-294426	Drill Site 02, Under 2-4 lateral valve on gravel pad and into reserve pit.	Crude Oil	15.00	Drill Site 2 Well 4 Flowline lateral valve leaked approximately five gallons of crude from stem seal/bonnet of valve. The tubing and flowline had recently been freeze protected, via pump truck, which is the suspected time the leak occurred.	Recovered material with Supersucker and hand tools.	45 cubic yards of material taken to G&I for disposal.	Initially reported on 8/23/02. Spill volume has been increased from initial estimate of 5 gallons to 15 gallons upon complete excavation of material.
7/24/04	2004-IR-986806	Well Pad L, L-pad, GC2/SAT	Hydrochloric Acid (HCL)	15.00	At approximately 3:30PM on Saturday 7/24/04 a VECO Vac truck arrived at L-01 to offload neutralizer to tank 73020 that had been used for an ASRC Acid flow back job. A safety meeting was held with the VECO vac truck operator and the 3 ASRC employees at ASRC test unit #1. After the Safety meeting it was determined that due to lack of PPE, the VECO vac truck operator would stay outside of the bermed area of the tiger tank and the ASRC employees would handle all operations within the bermed area of the tank. ASRC employee Tom Martin had conducted an initial tank strap prior to off loading any neutralizer into tank, and establishing a reading of 75% tank capacity. At this time Tom Martin hooked the hoses up to the tiger tank, and the VECO vac truck operator began offloading the neutralizer. After approximately 10 minutes of flowing neutralizer into the tank Tom Martin went on top of tank to take another reading, and established a reading of 85% capacity using tank strap chart. After taking the reading Tom was walking to the back of the tank to tell the vac truck operator the reading he had established, when the tank began to overflow through a 2" coller on the low side of the tank. The vac truck operator observed the tank overflowing and immediately relieved pumping pressure and began to vacuum off overfill. The ASRC Test unit operator was notified of the situation and immediately called 5700 to report the situation.	The material was neutralized and cleaned up using a vac truck on site.	All the material was recycled.	A spill review was conducted and determined the strapping chart for the tank did not match the tanks capacities.
1/23/05	2005-IR-1216587	Drill Site 09, DS 9 # 43, FS2/COTU	Seawater	15.00	Upright tank (# 73014) was staged on DS 9 Well 43 for a upcoming pumping job. The tank was loaded with 1% KCL the morning before the pumping operation with no signs of leakage. A short time later, the DSO saw steam from the tank area and found the tank to be leaking. Spill containment was placed underneath leak and notification calls were made. Vac and Bed trucks were sent to location to unload and move leaking tank, for SRT to clean area.	Loader and dumpbox were used to remove material.	Material was brought to T Pad for disposal.	Note: This is 1% KCL water and not Seawater. The Traction Program doesen't have KCL water in it's program.
9/28/06	2006-IR-1996888	GC-2, GC2 Skid 4A, GC2/SAT	Methanol	15.00	The ASRC pump unit was rigged up on well Q-01attempting to clear an ice plug from the flowline. The plug appears to have dislodged causing a pressure gauge in Skid 4A to fail at a tbg. fitting and begin leaking.	Hand tools were used to remove small amount of gravel from outside skid. Chemical cleaner and sorbents were used to clean affected area in skid.	The gravel was taken to DS-4 Grind and inject. The sorbent material was disposal in an approved oily waste dumpster.	The verbal notification was made on 09/28/06 at approximately 1:15 AM by the WOA environmental advisor.
5/18/01	2001-IR-101435	Well Pad F	Hydraulic Fluid	15.00	Operator swung cab with the cab lock pin in the deployed locked position. The pin stuck the hydraulic filter cap and broke the cap off. Hydraulic fluid was released and spilled approximately 15 gallons on ground. The cab lock pin is mainly used for locking the cab when the crane is travelling.	The contaminated snow and gravel was cleaned up using a loader, dump truck and hand tools. Absorbent pads were used to soak up liquids.	The contaminated snow and gravel was hauled to Pad-3 disposal facility. The contaminated absorbent pads were placed in an approved oily waste dumpster.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300.
4/18/01	2001-IR-101247	Well Pad H	Hydraulic Fluid	15.00	The main feed hose on loader # 52-240 failed resulting in a 15 gallon hydraulic oil spill.	The material was cleaned up using a loader on site.	The affected snow was taken to pad 3	This information is being provided to fulfill the spill notification requirement under 18 ACC75. 300
11/4/07	2007-IR-2457101	CWTF/ CSTF, CSTF WOA, Non Process Area	Sewage	15.00	THE VAC TRUCK DRIVER WAS OFFLOADING SEWAGE AT CSTF. THE CAMLOCK CONNECTION VIBRATED LOOSE CAUSING SEWAGE TO LEAK OUT OF THE FITTING ONTO THE PAD.	Hand tools and a loader were used to remove contaminated gravel from the pad area.	The contaminated gravel was taken to Pad 3, The recovered liquids were pumped back into the sewage treatment plant.	The initial verbal notification was made by the GPB WOA environmental advisor on 11/04/07

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/22/05	2005-IR-1379676	Well Pad F, GC1	Hydrochloric Acid (HCL)	15.00	A clean vac truck was loaded with 100 bbls of soda ash during the day shift. Second shift employee pumped the mixture to a dirty truck and traveled to F-Pad to offload the mixture into a tiger tank, and also load returns. At 10:00 PM, approximately 8-10 bbls had been offloaded. The tank began making loud noises, followed by fluid blowing into the air from the de-mister on the top of the tiger tank. The driver and one witness confirmed that the compressor in use on the truck was set at eight (8) pounds of pressure. Approximately one cup was cleaned from the gravel pad, outside of the liner. The remainder of the liquid was contained inside the liner. Clean up was completed around 1 AM, which resulted in 15 gallons of liquid. The PH level of the fluid inside the liner was determined to be one (1), and the mixture inside the truck was also sampled with a result of a PH of eleven (11).	A hand pump was used to recover liquids inside the containment. Sorbent material was used to wipe down the containment area.	The liquids were put back into the tank. The sorbent materials were given to the GPB Waste coordinator for proper management and disposal.	Verbal notification was made on 5/22/05 at approximately 23:00 hours.
11/17/03	2003-IR-682639	Well Pad G, Release from either ring gasket or flange connection to wellhead on the OA of G-06	Crude Oil	15.00	Pump crew rigged up to pump crude down OA of G-06. Existing flanged annulus had been rigged up with a 90 deg elbow and halliburton valve by DSM prior to pump crew arriving on location. Pump crew pressure tested lines against the inner flanged valve. The valve stem on this valve was leaking. and operations suspended. Grease crew arrived on location and replaced valve stem. Pumpers resumed operations and successfully pressure tested surface lines against the same casing valve. The annulus was found to be at 0 psi or vac when rigging up. The pump crew began pumping crude down OA at 1.35 bpm. Pressure increased at 2.8 bbls away indicating they had filled the void space in the annulus. At 6.3 bbls away and 1500 psi on the annulus, the pressure dropped off to zero. The ground hand observed crude spraying out of the wellhouse and told the pump operator to shut down. When crude returns were observed to cease, the ground hand opened the check valve by pass on the pumpers line and the pump operator sucked the line back to the truck and shut down. The pump crew observed no further release and began notification process - supervisor, DSO, spill response. The well had been previously secured from surface flow by a competant tubing tail plug in January 2003. The OA did not show evidence of communication with the IA in the pressure records maintained in the Ann Comm database and DSO pressure-read history. The pumping crew proceeded to rig down and clean up the wellhouse / snow with the well confirmed safe. Spill reponse followed up with a cleanup of the cellar on the day shift. The cause of the release is currently unconfirmed. The source is suspected to be either a failure in the flange gasket upstream (closer to the wellhead) of the casing valve or the connection between the flange and the wellhead. DSM will rig down the 90 deg elbow and halliburton valve. They will then set a VR plug and investigate the leak.	Clean up was done using rags to wipe well house walls and tree. Free standing liquids were pumped out using a hand pump. Affected gravel was removed with shovels.	The gravel will be taken to Drill Site 4 G&I disposal facility. The sorbent material will be taken to a NSB oily waste dumpster.	Standing liquids in frozen cellar had minimal penatration to gravel.
7/19/01	2001-IR-71235	Main Construction Camp (MCC), MCC parking lot	Diesel	15.00	Delineator crew arrived on MCC pad for morning break and noticed that fuel was leaking out of the compressor they use to implant markers. One of the employees went to call SRT and the other plugged the hole with his finger until Security arrived. Security put a tape plug on the hole and stopped the leak. The plug had fallen off the compressor due to rocks on the road. Approximately 10 gallons spilled. SRT cleaned up the spill.	Recovered with hand tools/bobcot ad placed in to dump box for disposal.	8 cubic yards of lightly contaminated material taken to pad 3	This informatiom is being provided to ADEC per 18 AAC 75.300.
5/2/01	2001-IR-101343	Sag River	Hydraulic Fluid	15.00	Loader #53-003 broke a hydraulic hose on hydraulic pump and spilled 15 gallons of hydraulic fluid. The spill occurred on the Sag River below the pipeline tram down stream. The cover on the river is ice mixed with snow. They were in the process of cleaning snow off the ice so that they could cut the ice for breakup.	Recovered product with loader and placed into dump box for disposal at pad 3	4 cu. yrds. of lightly contaminated snow/ice taken to pad 3 East pit	This information is being provided to ADEC per 18 AAC 75.300
4/23/02	2002-IR-208407	Drill Site 11, Behind well house of DS11-24.	Corrosion Inhibitor	15.00	Corrosion inhibitor chemical, Nalco 01VD121, was found to be leaking from a 3/8" swagelock fitting behind the DS11-24 well house. The leak was discovered by a Security Rover making his rounds.	SRT working with bobcat to remove snow and recover fluid and contaminated snow. After sampling additional materials were removed. Later sampling showed area to be clean.	Contaminated snow & Gravel have been sampled and will be tested for Hazardous characteristics of Flash point & Ph. Disposal plan will be decided at that point. / After testing contaminated snow and gravel was sent to Pad 3 for disposal.	Verbal Notification was made to all agencies.
1/13/01	2001-IR-95860	Well Pad F	Sulfuric Acid	15.00	Battery Technicians were removing a battery (cells), from the skid following the installation of a replacement battery. The cells were loaded onto a pallet, shrink-wrapped, and were being placed on a boom-truck. The palletized load was picked using straps through the pallet with the use of a spreader at the top of the load. As the load approached to within approximately one foot of the flat-bed surface, a piece of the pallet failed, causing the load to shift. As a result, the cells fell to the flatbed and broke/cracked, causing sulphuric acid to spilll onto the truck and surrounding pad.	The acid was neutralized with soda. Sorbent materials were used to wipe affected areas of the truck. Heavy equipment was used to clean affected gravel pad.	Material has been tested and determined to be hazardous waste. All material is packaged at the Haz-Waste shop and will be sent offsite for final disposal.	A spill review meeting was held on 1-14-01
10/9/05	2005-IR-1574115	Drill Site 18, DS 18 # 21, FS1/SIP/STP	Crude Oil	15.00	During pump operations tank return valve was left open while pumping down flowline. This resulted in overflowing tank 1 onto the gravel pad. The wind was blowing approximately 25-30 mph and spread the spilled fluid across across an approximate area of 30 x 60 feet.	Loader, and dump box were used to remove material from site.	Material was brought to G&I for disposal.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/22/06	2006-IR-2024080	Well Pad W, W-17, GC2/SAT	Diesel	15.00	After getting to depth where they wanted to spot in acid, the pumps were just getting ready to roll, when a o-ring failed at a connection on the lubricator.	The contaminated snow was removed from the pad using hand tools and placed into oily waste bags for transportation. The wellhouse and pipework was hand wiped with rags and absorbent pads.	The contaminated snow and gravel will be taken to the Grind & Inject facility for disposal. The contaminated rags and absorbent pads will be taken to an approved NSB oily waste dumpster.	
3/17/03	2003-IR-460608	Well Pad B, B-07 wellhouse, surface safety valve grease fitting	Crude Oil	15.00	While making his daily rounds, the B-Pad operator discovered a grease fitting leaking on the surface safety valve of well B-07. The operator contacted the grease crew for additional information regarding the surface safety valve. The grease crew lead informed the operator that closing the surface safety would not seal the leak. The operator notified the Lead Tech, BP Radio and the Spill Response Lead, and opened the wellhouse doors for ventilation. When the LEL dropped to 5%, the pad operator and lead operator entered the wellhouse and closed the master valve. The well was swapped to LP from HP to reduce the pressure on the flowline. During this swap, the surface safety valve closed, isolating the leak source. 15 gallons of crude oil spilled	A loader was used to removed affected snow on the pad. A pressure washer was used to clean affected parts inside the well house. A supersucker was used to remove contaminated gravel inside the well house.	The snow was taken to T-pad storage pit. The gravel was taken to Drill site 4, grind and inject facility. Sorbent material was taken to NSB approved oily waste dumpster.	
5/20/04	2004-IR-909666	Well Pad A, A-34 well cellar, GC3	Crude Oil	15.00	While making his daily rounds, the A-Pad operator discovered that oil had been blown out of the conductor pipe through the flutes on well A-34. This well is a waivered well for IA x OA communication. The OA pressure is allowed to go to 2000 psi, but lately had been running around 150 psi. The OA had been up around 700 psi earlier in May. In late-April, the OA pressure was 1400 psi.	All of the fluids in the well cellar have been removed with a Vac truck. Gravel has been removed by VECO crew and liner has been installed.	Contaminated water and crude have been taken to Pad-3 disposal facility. Contaminated gravel has been taken to Grind & Inject Facility.	
11/5/06	2006-IR-2040457	GC-2, GC2 Skid 7 emergency generator, GC2/SAT	Diesel	15.00	While filling the emergency generator day tank in Skid 7, the tank over filled spilling diesel on the ground. The hi lev. alarm latched in but failed to shut down the pump. The operator was not notified of the alarm and the leak was not spotted until he looked out the door. The alarm came in approximately 10 minutes before the spill occured. The diesel leaked into an underground utiliway with only about 20 gallons visible on the surface. There is no way to total the amount until the utiliway is checked.	Shovels were used to remove contaminated snow. A Bobcat and trimmer were used to remove contaminated gravel.	The diesel contaminated snow was taken to an SRT melt tank at Santa Fe pad for recycle. The gravel was taken to Pad 3	
8/27/02	2002-IR-297532	Well Pad H, H-Pad	Drilling Mud	15.00	Shock hose between the pit complex and the sub structure failed. Mud leaked from within the rig down the outside wall to the ground. ACS called it 15 gallons with 2 out of containment. The area between the complexes had secondary containment but didn't extend to the full width of the Pits.	Sorbent and hand tools were used to collect material from around pit liner. Contaminated gravel was removed with loader, dump truck and hand tools.	Sorbent material has been disposed of in a NSB oily waste dumpster. Gravel has been taken to T-pad Storage pit.	
4/20/05	2005-IR-1333785	Well Pad Z, On the gravel well pad in front of Z-07, GC2/SAT	Methanol/ Water	15.00	A 1502 rubber seal at a 90 deg connection failed. It was located on the discharge side of the pump of the coil unit. Due to the location of the fluid on the pad and the route it traveled in the coil unit, the spill was discovered upon removing the unit. The area was cleaned and SRT was called. They responded and retrieved the material.	A loader and shovels were used to clean affected snow and gravel on pad.	The snow and product was taken to SRT shop and will be recycled for freeze protect material.	
1/16/04	2004-IR-746920	West Gas Injection, West Gas Injection 5, Non Process Area	Hydraulic Fluid	15.00	Hydraulic hose failure of crane #46-453 resulted in a spill area 4 ft. x 4 ft. SRT notified. SRT to determine quantity.	Standing oil was recovered with sorbents and the contaminated snow was recovered with a loader and dump box.	Contaminated snow and gravel was taken to Pad-3 and the sorbent was disposed as oily waste.	
1/24/03	2003-IR-421443	Well Pad F, F-Pad	Seawater	15.00	A mud hose from the mud pump to the rig floor had frozen. The derrick man notified the driller of the situation. A plan was discussed as to how to thaw the frozen line. Prior to breaking a connection on the hose, the crew placed a large section of Herculite liner material on the ground with a portable slope tank used for well cuttings, on top of the liner underneath the connection to catch any fluid that may be in the line. Two employees applied steam to the opposite end of the hose as two employees broke the connection. When the connection was broken, the direction of the hose was not in alignment with the slope tank, causing an estimated 15 gals of Class II Seawater to over shoot the tank and spill onto the herculite liner. The fluid was contained on the Pad with none onto the Tundra. A loader with a bucket and employees using shovels removed the frozen fluid and placed it into the slope tank used for well cuttings. The spill was reported to the spill response office and to the Pad Operator and ADW HSE	All of the contaminated snow was removed with heavy equipment and hand tools.	Material was placed in rig slop tank and will be taken to a class II disposal facility.	
5/5/03	2003-IR-502272	Well Pad C, C-Pad between C-10 and C-11.	Crude Oil	15.00	Well C-11 had been kicked off using produced fluids from Well C-10 for lift. One of the seal rings in the hardline failed, releasing produced fluids. The source was shut-in and the line depressured. The hardline was rigged down.	All the contaminated materials were recovered using heavy equipment (front end loader/dump truck). Used scratcher attachment to remove oil imbedded in gravel pad.	Recovered materials were transported to an approved waste storage facility at T-Pad.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/8/07	2007-IR-2183759	Drill Site 03, Drillsite #3 - well #1. Adjacent to Tiger Tank., FS2/COTU	Seawater	15.00	Vacuum truck was attempting to evacuate fluids from Tiger tank that had been recovered from downhole. Offloading riser from tank was determined to be blocked with ice. Steam heat was being applied to riser to thaw ice plug when vac truck driver disconnected vacuum hose from vacuum point on vac truck and laid hose end in spill dike. Derrickman continued to thaw on riser. Bleeder valve at top of riser was left closed and when ice plug thawed, fluid began siphoning from tank through hose into containment dike. Vac truck driver discovered fluid flowing from hose and overflowing spill dike. Vac truck driver picked up hose and stabbed back onto vacuum point on truck to stop fluid flow.	The contaminated area was scratched up with a loader and the material was loaded into a dump box for disposal.	Contaminated snow and ice was taken to T-pad for storage and future class 1 disposal.	
10/20/01	2001-IR-126309	Drill Site L3, Drill site L-3 between wells #22 & 24	Hydraulic Fluid	15.00	15 gallons of hydraulic fluid spill onto L3 pad when a hydraulic hose on a backhoe ruptured.	Recovered product with loader and placed into dump box for disposal at Pad 3.	34 cu. yrds of lightly contaminated snow and gravel taken to Pad 3 for disposal.	
9/21/01	2001-IR-119639	Well Pad F	Crude Oil	15.00	Per pumptruck operator: While pumping a freeze protect job on F-39 from our hard line connection point outside of the F-54 skid I noticed a small stream of dead Crude from my operator room window. I immediately shut down the pump and high pressure hard line and went around to the back of the pump and shut it in and put a suck on the hose from the tanker. I then called the pad operator and field SPOC to notify the environmental department. I then reported the incident to my company Foreman, Butch Short. We then put absorbent on the spill area. The environmentalists showed up on site and estimated the spill to be 15 gallons. The material spilled was dead crude. Five gallons was caught in a ½ drum the was under the connection point. So that left 10 gallons spilled on the gravel pad. The cause of spill was a rubber O ring failure on our fitting that the hammer union was attached to the pump tanker hook-up. It was not leaking prior to the job and my helper saw no problems with the O ring prior to hammering the fitting tight	Loader and bucket were used to removed contaminated gravel.	The class II material was taken to Drill site 4 Grind and iject facility.	
11/26/01	2001-IR-137629	Well Pad H, H-18 well cellar	Diesel	15.00	While conducting a pre-rig diagnostic mechanical integrity test on the outer annulus of H-18 fluid migrated up the conductor pipe and into the well cellar. The Environmental Technicians were contacted via 5700 Spill Hotline. Fluid volume has been estimated to be 15 gallons of diesel. The diesel has been vacced from the cellar for reuse. The well has been secured and tagged to remain shut in.	Free standing diesel was vacced up for recycle. Gravel has been removed with a super sucker and taken to Grind & Inject Facility for disposal.	Diesel was recycled. Gravel has been taken to Grind & Inject facility.	
7/17/06	2006-IR-1908179	GC-1 Pad, At old enterance to GC-1 at Spine road, GC1	Hydraulic Fluid	15.00	An unknown hydraulic oil spill was discovered by the ACS spill tech traveling down Spine road.	A loader and shovels were used to remove contaminated gravel.	The contaminated gravel was taken to Pad 3 disposal facility.	
10/14/01	2001-IR-125002	Drill Site L4, DS #L-4	Hydraulic Fluid	15.00	The hydraulic filter flew off the power pak of snowblower #52-244/53-010 while removing snow on pad L-4. The incident resulted in a 15 gallon hydraulic oil spill. The power pak is brand new with less than 30 hours on the unit. It was concluded that the power pak was shipped ready to work and that the dealer did not tighten the filter unit properly.	Recovered product with loader and placed into dump box for disposal at Pad 3.	14 cu. yrds. of snow/gravel taken to Pad 3 for disposal.	
7/8/05	2005-IR-1448648	Lisburne Production Center, Produced Water Injection Disposal Well LPC-2 8"x1500 flange (downstream flange of check valve), GPMA	Produced Water	15.00	Utility Operator was making his rounds and was cleaning up the wellhouse area for LPC-2 (PW Injection Disposal Well) when he noticed a moderately dripping flange downstream of the injection line check valve. It was dripping produced water into the gravel. He shut in the lateral line valve (upstream of the leaking flange) and shut in the well wing valve (nearest downstream valve), isolating the leak. A containment pan was placed under the leak.	Contaminated gravel to be cleaned up with a super sucker truck.	Contaminated gravel will be sent to G&I for disposal.	
2/26/07	2007-IR-2167538	Main Construction Camp (MCC), MCC CAMP MAIN FACILITY BLDG SOFFET SPACE, Non Process Area	MEG	15.00	02/26/07 Glycol alarm from boiler room sounded approx 6:00 am . Reset system and investigated utilidor for possible areas of concern. No spills were discovered. Walked a perimeter search outside of building , in search of possible leaks. None were discovered at this time. System pressure continued to drop in boiler. Another observation was made to determine if and where leak was occurring. Discovered an area under main camp and Lisburne wing hall with a loss through the bottom of the building, approx 10 gallons. Pipe was located in isolated area in utilidor, discovered a leaking flange gasket, and was repaired.	The contaminated area was flushed with hot water, and recovered with a vac truck.	Fluids will be brought to Pad 3 for disposal.	
10/4/01	2001-IR-122447	Well Pad L, WOA - L Pad	Sewage	15.00	Envirovac overflowed since it was not emptied every day as requested/promissed.	The contamiated gravel was removed with hand tools and placed in oily waste bags for disposal.	Contaminated gravel will be taken to pad-3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/31/03	2003-IR-665091	J Pad, J-Pad storage area	Hydraulic Fluid	15.00	Operator proceeded to tanker # 39002, tractor # 82162, located on J-Pad to suck out the sump of the rear doghouse. Accomplished a 360 of vehicle and filled out STA card. Went to back of truck where Hot Oil was offloading into truck. (Hot Oil apparently informed Veco dispatch earlier regarding the accumulation of fluid in the sump.) Operator went to the front of the truck to engage the PTO for the Buoy pump to suck out the sump. Went to the rear to use the pump but it would not turn. Proceeded to try and use the pump 3 times to no avail. Shut in the pump, and came back to the shop to get assistance. During the time the operator returned to the shop, Hot Oil finished their offloading and noticed the fluid on the ground. They immediately shut off the truck, and notified Veco Dispatch. When the operator and help returned, hydraulic fluid was noticed on the ground and on the truck. It appeared the filter seal had failed. Absorbent pads were placed to contain the fluid until SRT could respond. Notification was made to all interested parties. SRT responded, estimated the release at 15 Gals. cleaned the residue up with a loader and will transport to CC2A for disposal. The unit in question will be offloaded at Mine Point and then delivered to Base Camp for inspection and repairs.	Front end loader and dump truck were used to transport material to T pad for disposal.	Material was brought to T pad for disposal.	
7/12/07	2007-IR-2337233	Drill Site 11, DS 11-32 around the wellhouse., FS2/COTU	Methanol/ Water (50/50)	15.00	During a production logging job, line and tools could not be moved after the well was opened for flow. After process of elimination and checking on wing valve closure turns, cause was determined to be the line was flowed down the flowline. During process to free the line, well was killed, BOP's closed, lubricator bled off and verification of bleed off by opening of second valve performed. BOP's were verified to be holding pressure. This was the third time in the operation the BOP's had been closed on wire. Lubricator was raised off of BOP's with an ensuing release of 50/50 methanol / water mix possibly from lubricator vapor lock and/or BOP ram seal leak around wire. Volume was determined to be 15 gallons as per SRT. Swab valve was shut by direction of BP Wells Supervisor he felt fluid was escaping past the BOP rams.	Absorbent's, and Super Sucker were used to remove contaminated material.	Material was brought to G&I for disposal.	
1/4/04	2004-IR-734569	Drill Site 01, Drill Site 01-19, FS1/SIP/STP	Diesel	15.00	Received work permit, and filled out SETA card. Proceeded to well site and commenced task. Changed out needle valve from 1/8¿ ported valve to 1/4¿ port valve prior to starting job. Bleeding tubing and IA fluid into slop trailer. Connected up to IA with bleed hose to slop trailer. Checked level in slop trailer, (approximately 1-ft.), from previous day. Started bleeding at 1500 hrs. Pressures on well ¿Shut in¿ ,IA 160/ OA 50. Checked level of trailer every 15 minutes. At 45 minutes trailer was approximately at 50% capacity. Started to check level again in 15 +/- minutes and during walk around, felt a mist on his face. Immediately shut in the bleed and shut operation down. Pressure was not noticed at the time of the shut down. Pressure on wellhead increased after shutting down the bleed operation to 140 PSI. Well pressure increased on IA post bleed down.	Loader, and dump box were used to remove contaminated material .	Material was brought to G&I for disposal.	
9/18/02	2002-IR-316743	Well Pad Z, Z-Pad	Fresh Water	15.00	The flush valve on the urinal in the envirovac unit stuck in the open position. Water continued to flow out. Eventually, the outlet tank filled up and started backing up, causing the water to overflow. Approximately 10 to 15 gallons of grey water leaked out of the envirovac onto the gravel pad.	Vac truck, disinfect.	CSTF	
3/12/04	2004-IR-836157	Flow Station 3, FS-3, module 4925, FS3	Corrosion Inhibitor	15.00	During routine delivery of corrosion inhibitor, the flow meter sight glass leaked into the secondary container. The material was picked up and reused into the produced water system. The sight glass leak was also repaired the following day. Additionally, this spill was incorrectly reported to GPB's Environmental Advisor instead of the Spill Reporting Hotline @ 5700.	All spilled fluid was evacuated from containment pan and reinjected into the produced water stream of the plant.		
6/29/97	1997-IR-89414	Santa Fe Pad	Diesel	15.00	Employee was moving a 4" water pump from the storage dock with the IT environmental loader, when the load shifted on the forks and fell to the ground. The diesel tank ruptured, spilling 15 gallons of diesel onto the pad. The employee had previous experience with the IT loader, but had never lifted a 4" pump. Another employee cautioned the loader operator of the difficulty lifting and lack of proper center of gravity of the pumps. The loader operator adjusted the forks as instructed and lifted the pump. The IT loader is noted for lack of smoothness when turned, this coupled with the lack of a definite center of gravity on the pump contributed to the pump falling. The suspected rationale for the bad center of gravity was the modification from a 5 gallon tank to a 25 gallon tank.		The material was determined to be non-hazardous and was sent to Pad 3 for storage until it can be thermally remediated.	An employee was attempting to remove a pump from a dock on Santa Fe Pad using a loader with fork attachment. As the employee backed away from the dock the pump shifted and rolled off the forks. The fuel tank on the pump cracked from the impact, spilling
9/9/96	1996-IR-89838	GC-1 Pad	Crude Oil	15.00	Operator was safing-out the Dirty Water Tank for cleanout. A bleed trailer was positioned at the east side of Skid 326. Bleed hoses from various sources were put into the Tank for draining. The dirty water transfer pump suction line was drained and blocked in at the dirty water tank. The tank valve reportedly leaked through causing the bleed tank to overfill causing a crude/dirty water spill.		Exempt fluids were taken to CC2A injection skid. Exempt contaminated gravel was taken to Arco pad 3 for disposal.	During safe out procedures on suction line for dirty water tank T-312 a bleed line was placed from suction line to a bleed tank. The bleed tank was staged nex to skid 326. The bleed tank overflowed. Crude and water spilled into and out of secondary con

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/9/96	1996-IR-89838	GC-1 Pad	Produced Water	15.00	Operator was safing-out the Dirty Water Tank for cleanout. A bleed trailer was positioned at the east side of Skid 326. Bleed hoses from various sources were put into the Tank for draining. The dirty water transfer pump suction line was drained and blocked in at the dirty water tank. The tank valve reportedly leaked through causing the bleed tank to overfill causing a crude/dirty water spill.		Exempt fluids were taken to CC2A injection skid. Exempt contaminated gravel was taken to Arco pad 3 for disposal.	During safe out procedures on suction line for dirty water tank T-312 a bleed line was placed from suction line to a bleed tank. The bleed tank was staged nex to skid 326. The bleed tank overflowed. Crude and water spilled into and out of secondary con
1/28/99	1999-IR-93425	GC-3 PWH Section	Produced Water	15.00	An icycle was discovered, behind Sk.301, coming from the Drive Gas PSV Vent line. Due to leaking isolation valves in the Sk. 301, Produced Water pressured the Drive Gas System which overpressured the PSV's. The majority of the icycle is contained within the bermed dike, but approximately 15 gallons overflowed beyond the dike and onto the GC-3 pad. The Spill Response Tech was contacted and arrangements will be made to remove the contaminated ice when the weather improves.		Exempt class II material will be taken to ARCO pad 3 for disposal.	The isolation valves in skid 301 at GC3 leaked allowing produced water to pressure the Drive Gas System which over pressured the PSVs. Produced Water leaked out the PSVs and into a sub-surface liner. Approximately 15 gallons overflowed beyond the liner
2/15/96	1996-IR-98663	Drill Site 03	Crude Oil	15.00	Material spilled from pipe spool while being transported across pad. Absorb pads had been placed in pipe ends prior to moving. There were frozen residual fluids in spool which melted and forced pads out of pipe causing crude to leak on to snow covered	A loader and dump truck were used to remove the contaminated snow. - The contaminated snow was taken to Pad 3 East Pit on 2/15/96 to be held for future injection.		Material spilled from pipe spool while being transported across pad. Absorb pads had been placed in pipe ends prior to moving. There were frozen residual fluids in spool which melted and forced pads out of pipe causing crude to leak on to snow covered
9/19/94	1994-IR-86524	Well Pad F	Methanol	15.00	Two service companies were operating off the same pressurized manifold. In preparation to switch from one service company to the other, pump operator was preparing to pump and line up valves and open the valve to his source fluid, which overpressured the methanol tank. 15 gallons of methanol was spilled.		Gravel will be washed and reused. The fluids generated will be used for freeze protection.	During set up proceedings for a Nowcam Coil Tubing unit (on Well E-1) an employee opened a valve, which pressured up the methanol tank hooked up to the unit. This caused the tank to overflow and spill approximately 15 gallons of methanol on the Pad
8/5/98	1998-IR-89995	BOC	Seawater	15.00	Driver delivered 240 bbls of seawater to CC2A injection Skid at 14:30 hour in Vac Trailer T-85, hooked up to Injection skid and filled out fluid transfer permit. After taking break the offloading valve to Injection skid and driver informed operator that he would build pressure. During the process of regulating the pressure, the facility operator notified the driver that there was a leak. Driver took a quick look shut down pressure and recreated vacuum to effectively stop the leak immediately. Upon investigation, driver determined that the front load valve was in the open position. No leaks occurred until the pressure build process was started.		Material was taken to CC-2A Ball Mill for RCRA-exempt Class II grind and injection disposal.	Vac Truck driver at CC-2 pressured unit to off load and did not notice front load valve was in the open position causing approx. 15 gals of material to leak on gravel pad. The material was comprised of approx. 95% seawater and 5% drilling mud.
4/2/98	1998-IR-90536	Well Pad E	Crude Oil	15.00	The packing on a valve on Wel E-20 failed causing approximately 15 gallons of crude oil to spray on & inside the well house. A light mist escaped the well house & impacted the snow around the well house.		Snow, gravel and crude oil was taken to ARCO Pad 3 for RCRA-exempt disposal. Sorbents were placed in an oily waste dumpster for RCRA-exempt disposal.	The packing on a valve on Well E-20 failed causing approximately 15 gallons of crude oil to spray on and inside the well house. A light mist excaped the well house and impacted the snow around the well house.
7/25/96	1996-IR-98297	Flow Station 1	Crude Oil	15.00	"The 4915 sump level controller stuck allowing oil in the sump to overflow into the module. The sump containment dam had cracks at each end, and some of the crude seeped through onto the pad below."	Used hand shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/27/96 to be held for future remediation.		"The 4915 sump level controller stuck allowing oil in the sump to overflow into the module. The sump containment dam had cracks at each end, and some of the crude seeped through onto the pad below."
5/3/94	1994-IR-86568	BOC	MEG	15.00	A radiator leak from the "Sooper Collider" (Rock Crushing Unit) leaked into secondary containment. The liner had a hole in it allowing approximately 15 gallons of 60/40 MEG to leak onto the pad. Contaminants were vacuumed up with a guzzler. Product was reused for freeze protection at the Ball Mill.		Product was reused for freeze protection at the Ball Mill.	A radiator leak from "Sooper Collider" (Rock Crushing Unit), leaked into secondary containment. Liner had a hole in it allowing approximately fifteen (15) gallons of 60/40 Meg to leak on the pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/27/94	1994-IR-85922	GC-3 Pad	Diesel	15.00	Diesel smell was noted outside Skid 7 and traced to a diesel leak on insulated diesel day tank. The insulation was stripped and leak was coming from a manway gasket on the tank. The bolts were found to be loose. An estimated 15 gallons had spilled onto the Pad. This leak was a slow dribble that had probably been going on for a long time.		Contaminated material taken to Arco Pad 3.	The fuel tank for the emergency generator on the east side of Skid 7 developed a leak at the gasket on the head of the tank. It caused approximately 15 gallons of diesel to spill onto the Pad.
5/14/94	1994-IR-86217	Well Pad X	Drilling Mud	15.00	The mud cuttings bucket overfilled at the end of the solid system auger. The fluid flowed into a containment area with approx. 15 gals spilling on to the pad. Three VECO guzzlers, in support of the rig, were unable to keep up with the discharge from the auger. This was due heavy clay in the mud that was blinding off the shaker screens. The rig crew did not suspend operations quickly enough to allow the trucks to remove enough fluids from bucket. (For details-see attachment)		The contaminated material were taken from the cuttings bin, by a super sucker, to the ball mill.	During last part of surface hole, high volumes of clay were encountered, generating excessive volumes to the cuttings tank. The cuttings tank overfilled due to lack of sufficient monitoring.
12/18/98	1998-IR-90166	GC-3 PWH Section	Produced Water	15.00	At Approx 7:30am on12-18-98, GC3 Rover was making rounds and noticed steam coming from creatious water injection line outside skid 31, next to whear line goes under ground. Leak was coming from 3/4" ball valve sticking out of the insulatin on top of the 6" water injection line. Line was depressured and drained. Valve and nipple were removed from intrument flange and a plug installed. Environmental was called and cleaned up appox 15 gallons of produced in the form of Ice.		Class II material was taken to T-pad disposal pit.	A 3/4" ball valve froze and failed at the stem from not having been fully insulated on a water injection line causing approx. 15 gal of produced water to spill on the snow and gravel pad.
4/17/95	1995-IR-86949	Well Pad D	Seawater	15.00	During well operations the tiger tanks internal heating coil apparently failed, allowing seawater to spill onto the pad through the external outlet to the heating coil. The heating coil is an isolated system relative to the tiger tank and was not in service at the time. The 1" diameter pipe access to this internal heating coil was not valved nor capped, thus allowing approximately 15 gals of seawater to spill onto the pad.		The non-hazardous material has been taken to T-pad for disposal.	A leak developed in a thaw loop, inside of a tiger tank. This allowed seawater from the tank to migrate into the thaw loop and leak out of an open end of the loop onto the ground.
4/8/98	1998-IR-98793	Drill Site 07	Diesel	15.00	"When well was brought back on line after reinstallation of a flowline downcomer, the valve was left open, causing diesel in well bore to escape to snow covered pad."	"Contaminated material was scraped up with bobcat, shovels and chipping bars. - Sorbents were placed in oily waste bags and disposed of in oily waste dumpster. Contaminated gravel was taken to Pad 3 West temp pit on 4/7/98 for future remediation."		"When well was brought back on line after reinstallation of a flowline downcomer, the valve was left open, causing diesel in well bore to escape to snow covered pad."
6/11/98	1998-IR-100665	West Beach	Crude Oil	15.00	"During flowback through portable test separator, the relief valve off the separator relieved into relief tank. The fluid going into tank misted out of the tank."	The water at the edge of pad was lightly oiled and clean with a sorbent boom. The contaminated gravel was recovered with a loader and taken to Pad 3. - Contaminated gravel was taken to pad 3 West Pit for disposal.		"During flowback through portable test separator, the relief valve off the separator relieved into relief tank. The fluid going into tank misted out of the tank."
1/30/95	1995-IR-98540	Drill Site 14	Methanol	15.00	"A check valve failed, causing overflow pot under the pump inside the module to fill. Material leaked from the vent line onto ground under the module."	"In January, 1995, hand shovels and a bobcat loader were used to remove approximately 4 cubic yards of mostly contaminated snow and some gravel. The spill site was reassessed afer breakup to determine whether further cleanup action on the surface grave		"A check valve failed, causing overflow pot under the pump inside the module to fill. Material leaked from the vent line onto ground under the module."
9/29/99	1999-IR-98830	Drill Site 16	Corrosion Inhibitor	15.00	Chemical driver hooked to wrong tank. During the transfer of corrosion inhibitor to the DS-16 manifold building the product overflowed onto the pad.	A supersucker was used to remove the material from the pad. The contaminated material was manifested to Pad 3 for disposal.		Chemical driver hooked to wrong tank. During the transfer of corrosion inhibitor to the DS-16 manifold building the product overflowed onto the pad.
2/12/95	1995-IR-85851	Drill Site 18	Seawater	15.00	The crew was attempting to set packer by pressuring the mud system to 3500 psi. The system was charged and held for a brief moment and then a sudden loss of pressure was detected. The pumps were shut down and an investigation was done. Upon investigating, a hole was found in a high pressure pump hose located between the complexes. Approx. 15 gals of sea water spilled on to the gravel pad. Cleanup procedures were implemented and the Environ. Dept. was contacted immediately. The fluid was cleaned up and properly disposed. (See NS Spill Repot # 95-017)		The exempt material was placed in the cuttings bucket for disposal at CC2.	A high pressure hose from the pump discharge unit back to the rig, ruptured causing approximately 15 gallons of sea water to spill on the pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/6/98	1998-IR-90580	Well Pad Z	Diesel	15.00	Approximately 15 gallons of diesel fuel was spilled while crews were rigging down the lubricator used to support E-line work on well Z-22. Schlumberger finished running out of the wellbore and in preparation to rig down notified Dowell to began bleeding down the lubricator. Dowell personnel notified the Schlumberger engineer that the lubricator was on vacuum. Schlumberger's pressure and temperature tool also indicated that the lubricator was on vacuum. A few minutes later the Schlumberger crew detached the lubricator from the tree saver and approximately 15 gallons of diesel was spilled in the wellhouse and onto the pad. There were on injuries as a result of the incident. The WSA NRWO Team Leader, WSA Safety and the WSA Team Leader were notified of the incident immediately.	Contaminated snow and gravel was removed with hand tools. Affected well house and structures were wiped down with rags and sorbents. Cleanup adequacy was determined visually by the Lead Spill Technician.	Rags and sorbents were bagged and placed in oily waste dumpsters. RCRA-exempt contaminated snow and gravel was taken to ARCO Pad-3 for disposal.	Approximately 15 gallons of diesel fuel was spilled while crews were rigging down the lubricator used to support E-line work on well Z-22.
6/14/96	1996-IR-91682	Well Pad B	Seawater	15.00	A vac truck operator was preparing to unload a tank of seawater at the rig. As he released the vacuum on the tank fluids leaked past the front hatch located in the dog house. Approximately 15 gallons of seawater spilled onto the pad. An investigation was conducted and it was found that the hatch was not properly secured on the vac unit. The operator had only hand tightened the hatch and had forgotten to go back and tighten it with a wrench.		The class II clean up material was taken to CC2A injection well for disposal.	The hatch was not completely secured on vac truck K60 before the operation began allowing seawater to overflow onto the pad.
10/16/94	1994-IR-98258	Drill Site 11	Crude Oil	15.00	Crude leaked from a check valve on a production line due to an O-ring failure. All material was contained inside well house.	A supersucker was used to remove contaminated gravel from the well house. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 10/16/94 to be held for future remediation.		Crude leaked from a check valve on a production line due to an O-ring failure. All material was contained inside well house.
5/7/93	1993-IR-87647	GC-3 Pad	Seawater	15.00	The Chemical departments pigging crew had set-up equipment to start smart pigging various piping loops at GC-3. They were in the process of pressure testing the pump unit connections and hardline before beginning the actual pigging job. During the pressure test, the PSV on the pump unit (which was set at 930 psi) activated at 220 psi. The ball valve that was located on the returns tank was inadvertently left closed causing the hose to be pulled away from the camlock fitting. This incident resulted in 10-15 gallons of seawater being spilled onto the pad of GC-3.		The contaminated material was taken to T-pad.	The hose clamp that attaches the 3" hose to the 3" camlock fitting broke loose, causing seawater to spill on to the pad.
7/22/94	1994-IR-98235	Flow Station 1	Lube Oil	15.00	Compressor engine failed when air backed into the compressor from the facility plant air manifold.	Loader was used to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/22/94 to be held for future remediation.		Compressor engine failed when air backed into the compressor from the facility plant air manifold.
8/26/93	1993-IR-89865	Well Pad X	Diesel	15.00	A valve was bumped and opened slightly. This was not noticed, and a drum was allowed to overfill.		Contaminated gravel was taken to Arco Pad 3.	A valve was bumped and opened slightly. This was not noticed, and a drum was allowed to overfill.
4/11/94	1994-IR-98157	Drill Site 15	Methanol	15.00	The valve on a methanol tanker was not completely closed when disconnecting the supply hose.	Metis/Cleanup		The valve on a methanol tanker was not completely closed when disconnecting the supply hose.
12/19/94	1994-IR-98403	Drill Site 03	Crude Oil	15.00	Slop tank overflowed because of a faulty sight glass reading during bleed down procedure.	A loader and bucket were used to remove the contaminated snow and a trimmer was used to remove the contaminated gravel. Absorbs were used to soak up the excess fluid. - The absorbs were disposed of at NSB and the contaminated snow was disposed of at Pad		Slop tank overflowed because of a faulty sight glass reading during bleed down procedure.
4/26/94	1994-IR-98172	Drill Site 18	Diesel	15.00	An abandoned snowcovered drum was punctured by a tractor during snow removal.	A bobcat and autocar were used to remove the contaminated material. - The contaminated gravel was taken to Pad 3 West pit on 4/27/94 for future remediation. The diesel/snow was taken to DSM slop oil tank for future recycle at FS1.		An abandoned snowcovered drum was punctured by a tractor during snow removal.
6/27/93	1993-IR-97986	Drill Site 04	Crude Oil	15.00	Overagressive depressuring of lines when preparing to install new grease zerks.	Metis/Cleanup		Overagressive depressuring of lines when preparing to install new grease zerks.
7/29/92	1992-IR-86673	Well Pad P	Seawater	15.00	Seawater was spilled from fitting during normal disconnect process from a Tiger tank. Material was scraped up wtih shovels and taken to A3W2 snow melter. Gravel will be washed and replaced. Operators were advised to use pit liners during fluid transfer.		Material taken to A3W2 snowmelter. Gravel to be washed and replaced.	Seawater spilled from fitting during normal disconnect process from Tiger tank.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/12/97	1997-IR-98715	COTU Facility	Diesel	15.00	"During fueling of truck 32-104, dispersal nozzel stuck in open position."	Used a loader scratcher and bucket to pick up contaminated snow and ice. - Contaminated snow and ice was taken to L pad on 2/13/97 for melting and reused as freeze protect in wellwork activity.		"During fueling of truck 32-104, dispersal nozzel stuck in open position."
10/1/90	1990-IR-100745		Methanol	15.00	"Attempting to pump meth. into well, gas from well overcame checkin valve."	YES -		"Attempting to pump meth. into well, gas from well overcame checkin valve."
6/4/95	1995-IR-98506	Drill Site 02	Seawater	15.00	"During fluid transfer, hose worked loose at the cam lock coupling."	Sorbents were used to pick up all freestanding liquids. Loader and autocar were used to pick up contaminated gravel. - Sorbents were taken to oily waste dumpster. Contaminated gravel was taken to Pad 3 West Pit on 6/4/95 to hold for future remediation.		"During fluid transfer, hose worked loose at the cam lock coupling."
7/14/91	1991-IR-97492	Drill Site 03	Lube Oil	15.00	Emergency generator released its engine oil due to pressure failure.	YES -		Emergency generator released its engine oil due to pressure failure.
12/19/90	1990-IR-100755		Diesel	15.00	Ice thawed from a valve shut partly shut and overflowed tank.	YES -		Ice thawed from a valve shut partly shut and overflowed tank.
3/11/92	1992-IR-97836	Drill Site 09	Methanol	15.00	A gas kick caused release from open top tank during wellwork.	YES -		A gas kick caused release from open top tank during wellwork.
7/19/91	1991-IR-97499	Well Pad, Roads	Crude Oil	15.00	Separator filled with carbolite and sprayed out hydrocarbons.	YES -		Separator filled with carbolite and sprayed out hydrocarbons.
6/1/94	1994-IR-98201	Seawater Injection Plant	Seawater	15.00	Foreign object in bleeder valve caused valve to stick open.	Metis/Cleanup		Foreign object in bleeder valve caused valve to stick open.
8/17/91	1991-IR-97315	Drill Site 15	Diesel	15.00	Valve on triplex pump left opened causing sump to overflow.	YES -		Valve on triplex pump left opened causing sump to overflow.
6/15/90	1990-IR-97020	Drill Site 12	Seawater	15.00	Outside hose was disconnected before closing inside valve.	YES -		Outside hose was disconnected before closing inside valve.
12/5/92	1992-IR-97846	Drill Site 14	Crude Oil	15.00	Tiger tank overfilled during a well cleanout operation.	Metis/Cleanup		Tiger tank overfilled during a well cleanout operation.
11/10/91	1991-IR-97587	Central Gas Facility	Diesel	15.00	Valve on storage tank failed causing tank to overflow.	YES -		Valve on storage tank failed causing tank to overflow.
11/2/92	1992-IR-97722	Drill Site 03	Methanol	15.00	Valve was left opened on the pig laucher common line.	Metis/Cleanup		Valve was left opened on the pig laucher common line.
7/5/91	1991-IR-97485	Drill Site 11	Diesel	15.00	Tank overflowed due to failure of two check valves.	YES -		Tank overflowed due to failure of two check valves.
6/27/92	1992-IR-97715	Drill Site 09	Diesel	15.00	Material leaked out from back of dumpster truck.	Metis/Cleanup		Material leaked out from back of dumpster truck.
5/13/93	1993-IR-97920	Well Pad, Roads	MEG	15.00	Ruptured relief valve during a pipe hydrotest.	Metis/Cleanup		Ruptured relief valve during a pipe hydrotest.
2/22/92	1992-IR-97830	Drill Site Maintenance	Crude Oil	15.00	Overfilled slop oil tank while pumping into it.	YES -		Overfilled slop oil tank while pumping into it.
5/31/90	1990-IR-100734	Lisburne Production Center	Crude Oil	15.00	Tanker hose split during off-loading operation.	YES -		Tanker hose split during off-loading operation.
10/22/91	1991-IR-97560	Drill Site 04	Diesel	15.00	Valve left open and overfilled catch tray.`	YES -		Valve left open and overfilled catch tray.`
2/9/92	1992-IR-87992	WSW	Seawater	15.00	Vac truck driver was loading sea water at the sea water truck loading station. A 1/2" bleed valve on the fill line was left open during the filling process and approx. 20 bbls of sea water ran out on the pad.		T-Pad disposal pit.	Valve opened accidentally on seawater tank.
6/21/91	1991-IR-97466	Drill Site 03	MEG	15.00	Faulty valve resulted in tank overflowing.	YES -		Faulty valve resulted in tank overflowing.
4/30/94	1994-IR-98178	U-21 (EOA Building)	MEG	15.00	Hose disconnected during fluid transfer.	Metis/Cleanup		Hose disconnected during fluid transfer.
11/30/93	1993-IR-98072	Seawater Injection Plant	Seawater	15.00	Hatch gasket was leaking on the tanker.	Metis/Cleanup		Hatch gasket was leaking on the tanker.
10/15/90	1990-IR-97136	Spine Road	Methanol	15.00	Valve vibrated open during transport.	YES -		Valve vibrated open during transport.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/19/92	1992-IR-97752	Drill Site 04	Seawater	15.00	Vac Truck adgitator packing leaked.	Metis/Cleanup		Vac Truck adgitator packing leaked.
3/28/93	1993-IR-97426	Drill Site 17	Seawater	15.00	Sealing gasket on frac tank failed.	Metis/Cleanup		Sealing gasket on frac tank failed.
6/22/91	1991-IR-97469	Central Gas Facility	Diesel	15.00	Leaked from faulty pipe fitting.	YES -		Leaked from faulty pipe fitting.
4/30/92	1992-IR-97702	Drill Site 02	Methanol	15.00	Overfilled slop oil trailer.	Metis/Cleanup		Overfilled slop oil trailer.
6/22/00	2000-IR-98860	Drill Site 06	Crude Oil	15.00	O'ring failure above BOP.	SRT used bobcat to pick up oiled gravel. Shorbents and rags used to wipe down interior & exterior of wellhouse		O'ring failure above BOP.
8/28/91	1991-IR-100782	Seawater Treatment Plant	Seawater	15.00	Overfilled vacuum tank.	YES -		Overfilled vacuum tank.
10/4/90	1990-IR-97127	Drill Site 04	Diesel	15.00	Fuel line broke.	YES -		Fuel line broke.
11/7/89	1989-IR-96814	Flow Station 1, Not specified	Crude Oil	15.00	"Drained from a hose when disconnected, before it was fully depressurized."	Not specified	Not specified	Not specified
12/31/89	1989-IR-96308	Drill Site 04, Not specified	Diesel	15.00	Backed fuel truck into goose-neck of rig and punctured tanker.	Not specified	Not specified	Not specified
6/14/82	1982-IR-96082	COTU Facility, Not specified	Diesel	15.00	Leaking back compar	Not specified	Not specified	Not specified
6/28/82	1982-IR-96086	COTU Facility, Not specified	Crude Oil	15.00	Meter not operating	Not specified	Not specified	Not specified
6/7/76	1976-IR-95987	Drill Site 01, Not specified	Crude Oil	15.00	Reserve pit overflo	Not specified	Not specified	Not specified
6/9/82	1982-IR-96080	Drill Site 14, Not specified	Crude Oil	15.00	Opened at wrong tim	Not specified	Not specified	Not specified
9/10/88	1988-IR-96503	Drill Site 17, Not specified	Diesel	15.00	Backflowed out vent	Not specified	Not specified	Not specified
4/24/88	1988-IR-96346	COTU Facility, Not specified	Diesel	15.00	Overfilled tanker	Not specified	Not specified	Not specified
7/20/88	1988-IR-96472	Drill Site 18, Not specified	Seawater	15.00	Overfilled tanker	Not specified	Not specified	Not specified
6/19/88	1988-IR-96430	Drill Site 03, Not specified	Diesel	15.00	Tank overflowed	Not specified	Not specified	Not specified
3/10/89	1989-IR-96917	Drill Site 06, Not specified	Diesel	15.00	Tank overfilled	Not specified	Not specified	Not specified
6/24/87	1987-IR-96223	Drill Site 09, Not specified	Crude Oil	15.00	Overfilled sump	Not specified	Not specified	Not specified
3/14/89	1989-IR-96928	Drill Site 11, Not specified	Diesel	15.00	Tank overfilled	Not specified	Not specified	Not specified
12/14/88	1988-IR-96570	Drill Site Maintenance, Not specified	Crude Oil	15.00	Overfilled tank	Not specified	Not specified	Not specified
4/14/89	1989-IR-96620	Drill Site Maintenance, Not specified	Diesel	15.00	Tank overflowed	Not specified	Not specified	Not specified
1/8/89	1989-IR-100835	Lisburne Production Center, Not specified	Crude Oil	15.00	Pressure vented	Not specified	Not specified	Not specified
10/11/80	1980-IR-96032	Surfcoat Pad, Not specified	Diesel	15.00	Fuel line broke	Not specified	Not specified	Not specified
4/3/87	1987-IR-96252	Drill Site 11, Not specified	Crude Oil	15.00	Drum over flow	Not specified	Not specified	Not specified
9/5/88	1988-IR-96497	Drill Site 09, Not specified	Crude Oil	15.00	Vent overflow	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/3/83	1983-IR-96133	Main Construction Camp (MCC), Not specified	Crude Oil	15.00	Sump failure	Not specified	Not specified	Not specified
3/3/99	1999-IR-93500	GC-3 Pad	Produced Water	15.00	Over flowed bleed tank during N2 purging of Produced Water pig receiver. Isolation valve leaked through filling bleed trailer and overflowing 15 gallons onto the pad		Non hazardous material was placed in tan accumulation bin on Santa Fe pad for disposal at ARCO Pad 3.	
7/10/99	1999-IR-94082	GC-3 Pad	Produced Water	15.00	During vessel flushing for the SFO Decommissioning Project, a relief hose from 'A' 2nd stg. separator to a Spicer tank broke free of it's tag line and sprayed produced water onto Skid 1T South wall and collected on the pad below the skid. The hose evidently got a slug of BS&W which momentarily pressured up the hose and relieved itself in and around the tank. The Spill Champion was at the tank, saw the hose "whip", and immediately radioed for the valve to be closed.	Absorbents were used to pick up heavy product. The module was washed off and the gravel was cleaned up with hand tools.	Exempt gravel was taken to ARCO Pad-3 and absorbents to oily waste dumpster.	
1/31/95	1995-IR-86108	Drill Site 18	Propylene Glycol	14.00	Propylene glycol in the brake cooling system changed viscosity due to extreme cold weather conditions. This caused the radiator cooling system to build up pressure, 14 gallons of glycol was spilled on the pad via a ruptured bull plug on the radiator boby.		The contaminated snow was taken to the melt tank at the CC-2 injection facility.	The propylene glycol in the cooling system changed viscosity due to extreme cold weather. This caused the cooling system to build too much pressure causing the glycol to release via a ruptured bull plug on the radiator body.
1/20/03	2003-IR-418215	GC-1, GC-1 Skid 450	Crude Oil	14.00	At approximately 11:45am on January 20th 2003 the loader operator that was doing snow removal on GC1 Pad notified Skid 7 that there appeared to be an oil leak on the backside of Skid 450. The GC1 Rover was called and he responded with the GC1 Operations lead and OTL. They found oil and produced water spray coming off of the Y/P LDF line and notified Skid 7. PCC was called and they took immediate action to shutdown the process coming from Y and P pad. Skid 7 and the rover operator worked together to depressurize the LDF line through the Slug catcher. The SRT lead tech was called out to assess the spill, determine the volume and define the spill area. (See Spill Report Included) The Y and P pad wells will remain shut-in and the LDF line will remain blocked until failure analysis and repair of the line is complete. Janurary 21st 2003 the insulation was stripped from the LDF line and the piping inspector (Doug Anderson) from the mechanical inspection group found a stress (fatigue) crack in the weld for the support leg where the LDF line 90’s down to enter the Skid.	Shovels and a super sucker were used to remove contaminated snow from under and around pipe areas. Pipes and other parts of the facility have been wiped down by hand. Brooms will be used to sweep affected frozen gravel under the skid. A loader was used to remove contaminated snow from pad and road areas.	Class two snow will be taken to T-pad storage facility.The oily sorbent and rags will big taken to an approved NSB oily waste dumpster.	corrected produced water from 24 gallons to 26 gallons BD 2/3/2002
4/2/93	1993-IR-89850	Drill Site 03	Diesel	14.00	During snow clearing operations, loader operator punctured a barrel containing diesel workover fluid buried under snow. Barrel had been placed in that location without proper notification to the area forklift operator or Rig Supervisor.		Contaminated snow and ice were taken to the slop tank of Rig 16. Fluids were taken to the Ball Mill with other exempt material from the Rig.	During snow clearing operations, loader operator punctured a barrel containing diesel workover fluid buried under snow. Barrel had been placed in that location without proper notification to the area forklift operator or Rig Supervisor.
11/29/81	1981-IR-96063	Drill Site 09, Not specified	MEG	14.00	Hose leaked fluid	Not specified	Not specified	Not specified
8/9/88	1988-IR-96411	Drill Site 11, Not specified	Diesel	14.00	Tank leak	Not specified	Not specified	Not specified
12/8/02	2002-IR-387700	Well Pad C, C-Pad	Methanol/ Water (50/50)	13.00	Coil Tubing unit # 9 was getting ready to pressure test motor head assembly prior to running into the hole will a perforating gun. Hard line was rigged up through the micro motion to the reel and then on to the pumpin sub. Because they had just finished a logging run, both the backside and the coil were opened up to bleed down well head pressure. Operator called notified the Supervisor that they were lined up to pump down the coil. At that point the Supervisor came on line in forth gear at an idle and did not see a pressure increase, so he dropped into second gear and idled up. The second operator notified supervior to shut down the pump. It was found that the operator overlooked the fact that the line to the backside was left open to the BOPs. This caused a 13 gallon spill out of the top of the BOPs. SRT and Client/Manager notifications were made and crew began clean up and containment measures. SRT estimated that 10 gallons was on the roof of the well house, 1 gallon in well house containment and 2 gallons into the cellar of the wellhouse and snow outside the wellhouse walls.	The contaminated snow on the roof of the well house was removed first. The gravel in the well cellar was removed using hand tools when the coil tubing unit moved off the well.	The contaminated snow was put into a melt bin for recycle for freeze protection at a later date. The contaminated gravel was taken to Drill site 4 grind and inject facility.	Spill was initially reported at 42 gallons verbally. Upon further investigation of the scene spill volume was determined to be approximately 13 gallons. Intital was sent on 12-08-02 and again on 12-10-02

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/15/06	2006-IR-2016270	Kuparuk Reservoir, Kuparuk Lake Reservoir, Non Process Area	Propylene Glycol	13.00	Hose clamp failure on 2¿ hose going from the top of the engine block to the radiator on Tractor 42-010	A bobcat with a trimmer was used to remove contaminated gravel from road. Sorbents were used to absorb some liquid.	The gravel was taken to Pad 3 disposal facility. The sorbents were taken to an oily waste dumpster.	
5/7/05	2005-IR-1356829	Well Pad F, F-Pad, GC1	Hydraulic Fluid	13.00	While doing reserve pit snow removal at F-pad, snow blower 53-009 had a hydraulic hose failure resulting in a 13 gallon hydraulic fluid leak. Ten gallons were caught in the blowers secondary containment and three gallons leaked to the pad.	Contaminated snow was removed from the pad using a loader, dump truck and hand tools.	Contaminated snow was taken to T-Pad storage pit.	
2/9/03	2003-IR-435316	Well Pad Y, Y-Pad	Lube Oil	13.00	PM work was being performed on the Y-Pad skid air compressor. While the unit was down, a portable air compressor was connected to the air system. During the work, severe weather moved in, creating Phase 2/3 conditions on the well pads. Work was shut down. Winds during the storm peaked over 50 mph. A significant amount of snow was blown into the air compressor inlet. The snow accumulated in the inlet separator, causing it to freeze-up and pop the pressure relief. Once the relief valve released, oil laden air was blown out of the unit. The oil coalesced on the inside of the container and dripped into the secondary containment until it began to overflow on to the gravel pad.	A loader and shovels were used to clean contaminated area.	The material was taken to T-pad storage facility.	
10/10/90	1990-IR-97134	Drill Site 09	Seawater	13.00	Valve vibrated open and camlock fitting broke off.	YES -		Valve vibrated open and camlock fitting broke off.
7/9/90	1990-IR-97037	COTU Facility	Diesel	13.00	Driver pulled away from pump w/hose attached.	YES -		Driver pulled away from pump w/hose attached.
8/31/89	1989-IR-96763	COTU Facility, Not specified	Crude Oil	13.00	Material leaked from a pinhole erroded in residual pipeline.	Not specified	Not specified	Not specified
10/9/06	2006-IR-2013104	GC-1, GC1 Pad, GC1	Propylene Glycol	12.50	While attempting to keep the GC1 plant instrument/utility air system pressurized durring the GPB power failure, the GC1 Operations team connected a portable air compressor to the plant air system. After verification that the compressor was fit for service, oil level check, cooling fluid check, and tire condition, the compressor was moved and connected to the plant air system. Once the compressor was started and pumping, the operators noticed glycol leaking from the engine compartment into and over the secondary containment. The compressor was shut down and the Operators noticed that one of the freeze plugs had become dislodged alowing the cooling fluid to release from the engine block.	A loader and hand tools were used to remove contaminated gravel from the pad. Sorbents were used to clean the engine compartment before sending compressor to vehicle maintenance for repairs.	The gravel was taken to pad 3.	This was a relativly new piece of equipment that had an unusual failure.
3/6/02	2002-IR-179573	Access Road, On the ice road between East Dock and the Sag-1 drill site near Niakuk Point	Hydraulic Fluid	12.00	An O-Ring seal failed in a snow blower impeller hydraulic drive motor allowing hydraulic fluid to leak into the spinning snow impeller discharge chute. Blew a fine mist of the material out onto the snow alongside East Dock to Sag-1 site ice road near Niakuk Point. Additional fluid leaked from beneath the unit once it was brought to a stop most of which was caught in secondary containment.	Material was recovered with loader and hand tools, then placed into dump box for disposal.	56 cu. yrds of material taken to Pad 3 for disposal.	Immediate notifications made to ADEC, NRC and NSB.
12/8/02	2002-IR-387627	GC-1, GC-1	Produced Water	12.00	Approximately 10pm while draining a 16" produce water header, a 3/4" hose connected to a high point vent on the 16" header starting whipping around inside of the spicer tank and spraying liquid onto Sk-306, piping that is in close proximately and area outside of the secondary containment. Skid 7 called the hot line and the SRT spill techs responded. Approximately 12 gallons of water wash from produce water line is the out come.	The contaminated snow and gravel was removed using hand tools and heavy equipment. The overspray on the pipework was wiped down with rags and sorbent material.	The contaminated snow and gravel was taken to T-Pad storage facility. The rags and sorbent material was taken to an approved NSB oily waste dumpster.	The initial report was submitted on 12-08-2002
10/10/03	2003-IR-647137	VMS Building, VMS Pad	Diesel	12.00	A fuel system pre-heater failed on a vehicle while parked outside of the vehicle maintenance shop. This caused approximately 12-gallons of diesel to spill onto the gravel pad. VMS mechanics report the pre-heater shorted out, burning the device, and allowing an escape rout for the fuel, which is pumped under pressure from the fuel tank. With a means of escape from the pre-heater fuel was pumped from the tank until empty.	Absorbent pads were used to pick up free standing liquid on the pad. Heavy equipment and hand tools were used to remove the remaining diesel.	Absorbent pads have been taken to an approved NSB oily waste dumpster. All of the contaminated gravel has been taken to Pad 3.	
1/5/06	2006-IR-1682556	Hot Water Plant, East side of Hot Water Plant pad., Non Process Area	Hydraulic Fluid	12.00	A manlift was staged on 01/02/06 at the hot water plant, and used by electricians to install a light pole for the steamer plant on 01/03/05 and 01/04/05. A pre-operational inspection was conducted on all three days. The lift was running all evening and into the next day after the work was completed. On the morning of 01/05/06, a vac truck driver leaving the hot water plant noted fluids underneath the lift, and made appropriate notifications. It was determined that an O-ring on a solenoid failed on a bleed-down valve. Eight (8) gallons spilled into secondary containment built in on the lift, and four (4) gallons spilled onto the pad.	Absorbent pads were used to recover the oil in the containment pan and on the side of the man lift. A loader was used to recover the contaminated snow and put into a dump box for disposal.	Contaminated snow was taken to T-pad for disposal. The absorbent pads were disposed as oily waste.	
3/14/02	2002-IR-184106	Access Road, Access road next to DS #13.	Hydraulic Fluid	12.00	While test driving B-70 around Lake Collen the parking brake set on the drive shaft resulting in the parking brake shattering and cutting hydraulic lines. Responsible company was Dead Horse Maintenance Operations.	Recovered material with grader and loader then placed into dump box for disposal at Pad 3	4 cu. yrds of material taken to Pad 3 for disposal.	
4/11/03	2003-IR-482395	Well Pad W, W-Pad Reserve Pit	Hydraulic Fluid	12.00	A Hydraulic hose on a 980 Loader, #52-306, ruptued and spilled approx. 12 gallons of hydraulic fluid onto the snow and ice while the loader was working in the W Pad Reserve Pit.	A loader was used to remove affected snow from reserve pit area.	The material was taken to T-pad storage facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/14/07	2007-IR-2437267	Well Pad G, G-19, GC1	Propylene Glycol	12.00	On October 14, 2007 at approximately 0445 while on loacaton a Super Sucker #36026 began leaking glycol from the overflow of the Super Sucker glycol reservoir vent line. The employee immediately shut down the machinery and contacted his supervisor. The supervisor contacted dispatch and all appropriate contacts were made. Initial clean up was started by the crews on scene and SRT arrived and finished the cleaned-up via shovels and bobcat, they estimated the release to be approximately 12 gallons of glycol. Investigation revealed that the glycol reservoir had been overfilled and when the unit was brought up to operating temperature the glycol expanded releasing fluid from the vent line. All released materail was recovered and disposed of in accordance with waste disposal guidelines.	Hand tools and a Bobcat used to remove the contaminated gravel from the pad.	The material was taken to Pad 3	
9/17/04	2004-IR-1056617	GC-1 Gas Section, GC-1 Pipe rack 174, GC1	MEG	12.00	Glycol leak was discoved near skid 32 by unit operator. Glycol had leaked on the ground due to a connection between a block (gate) valve and a nipple.	The standing liquid was recovered using a hand pump and sorbent material. The affected gravel was removed using shovels.	Pad 3 disposal facility.	
7/20/97	1997-IR-89469	Well Pad S	Seawater	12.00	A Schlumberger and HB&R crew were rigged up to S-26 in preparation to install a zone isolation plug. While the HB&R crew was pumping seawater downhole, the pack off at the top of the lubricator lost its seal resulting in approximately 12 gallons of seawater and 3 gallons of methanol being spilled onto the gravel pad. Prior to beginning the job the lubricator was successfully pressure tested to 2000 psig under static conditions. At the time of the incident, HB&R was pumping at a rate of 1 to 2 bpm with a pressure of less than 700 psig. The cause of the seal failure at the pack off was due to a larger gauge wire (0.46" wire) that was being utilized to accommodate the longer and heavier tool string that was required for this particular job. Just prior to the seal failure, the Schlumberger crew noticed an increase of 2000 psig, however the HB&R pump pressure never exceeded 700 psig. The Schlumberger crew suspected an electrical error but was unable to communicate with the HB&R crew because of incompatible radios. When the spill was discovered, the HB&R pumps were shut down, bleed hoses were rigged up to a bleed tank and Schlumberger increased the grease pressure to the pack off. The pack off seal still failed to hold pressure so the tool was taken out of the well bore and the well was shut in. This job has been suspended until further modifications can be made to ensure the lubricator integrity can be maintained.		Exempt material was delivered to ARCO Pad 3.	While working on S-26, the crew had placed the plug for well work downhole and were pumping seawater behind methanol. It appears pump pressure rose causing fluid to blow back and allow fluid to release through the well free cap.
1/29/98	1998-IR-90396	Well Pad D	Drilling Mud	12.00	Nordic 1 was pumping into the cuttings tank. The tank over flowed spilling approximately 126 gallons of 10% drilling mud and 90% seawater mixture onto the pad.		Class II material will be taken to CC2A for disposal.	Nordic 1 was pumping into the wier of the cuttings tank. The tank over flowed spilling approximately 126 gallons of 10% drilling mud and 90% seawater mixture onto the pad.
10/4/96	1996-IR-98648	Main Construction Camp (MCC)	Diesel	12.00	Hole in fuel line between front tank and engine resulted in diesel in tank leaking onto ground. Contamination occurred at PBOC and MCC parking lots.	"Used chipping bar, broom and shovel to clean up contaminated snow at PBOC and used bobcat with rake attachment to clean up contaminated snow at MCC. - Contaminated snow was taken to Flow Station 1 for recycle on 10/10/96."		Hole in fuel line between front tank and engine resulted in diesel in tank leaking onto ground. Contamination occurred at PBOC and MCC parking lots.
11/6/97	1997-IR-98630	U-21 (EOA Building)	MEG	12.00	Failure to lower radiator hose connecting to pump onVeco Equipment Tracker Rig #82076 and product spilled onto snow covered pad.	SRT used Loader and Autocar with dumpbox to scrape up contaminated snow. - Removed contaminted snow with loader into dumpbox and taken to Pad 3.		Failure to lower radiator hose connecting to pump onVeco Equipment Tracker Rig #82076 and product spilled onto snow covered pad.
7/6/99	1999-IR-98810	Main Construction Camp (MCC)	Fresh Water	12.00	"Coupling on 2"" return heating supply line broke. 30 gallons spilled on pad and 30 gals inside building."	SRT used a clean vac truck and vac. up product and gave to Wells Wupport for reuse for freeze protect.	Sent to Wells Support for reuse for freeze protect.	"Coupling on 2"" return heating supply line broke. 30 gallons spilled on pad and 30 gals inside building."
3/18/92	1992-IR-87836	Well Pad F	Crude Oil	12.00	Test separator was s/i using double block on inlet and outlet. T/S was successfully bled to zero and tested at local PI bleed. The off-gas meter was isolated and vented outside through T/S vent. However, no bleeds were established downstream of isolated off gas meters. Before meter was opened by maintenance, off gas meter pressured up and sprayed oil out the vent.		Contaminated snow taken to T-Pad. Used surbents placed in dumpster for disposal at N.S.B. incinerator.	Failure of valve to close properly allowed crude oil to vent from skid building onto pad.
6/25/00	2000-IR-100611	Lisburne Production Center	Crude Oil	12.00	The spill appears to be from residual crude left in the pipe from the 4/29/00 event.	"SRT responded and is in the process of cleaning up spill area. Using hand tools and a Vac truck to remove product, the spill cleanup is complete as of 7/2/00."	"1 cu yd of gravel was disposed of at G&I, 72 BBls of flare pit water was taken to Pad 3."	The spill appears to be from residual crude left in the pipe from the 4/29/00 event.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/14/93	1993-IR-100890	Lisburne Production Center	Crude Oil	12.00	Leaked from sump pump during shutdown. Pump not turned on.	Metis/Cleanup		Leaked from sump pump during shutdown. Pump not turned on.
8/14/91	1991-IR-97534	Drill Site 12	Crude Oil	12.00	Sprayed from vent due to plugged lubricator valve.	YES -		Sprayed from vent due to plugged lubricator valve.
4/19/93	1993-IR-97899	Drill Site 09	Produced Water	12.00	Grease fitting failed on a produced water line.	Metis/Cleanup		Grease fitting failed on a produced water line.
11/25/90	1990-IR-97187	Drill Site 14	MEG	12.00	Hydrotest crew was unbolting test header.	YES -		Hydrotest crew was unbolting test header.
1/15/00	2000-IR-100610	Drill Site L5	Seawater	12.00	Gaskets on tiger tanks leaked.	"Dowell used shovels to chip-up material. SRT removed the product with loader & shovels, placed into dump box, and sent to Pad 3 for disposal."		Gaskets on tiger tanks leaked.
12/30/88	1988-IR-96588	Drill Site 03, Not specified	Diesel	12.00	Valve left open	Not specified	Not specified	Not specified
11/4/88	1988-IR-96547	Drill Site 01, Not specified	MEG	12.00	Hose failure	Not specified	Not specified	Not specified
7/22/92	1992-IR-86669	GC-1 Pad	Seawater	12.00	Vac truck was overfilled. (Another spill, same truck, is 92-093). Loader was used to scrape up contaminated material which was loaded in a dump truck and taken to Arco Pad 3. A subsurface liner was installed under the loading station.		Contaminated material was taken to Arco pad 3.	Vac truck was overfilled. (Same truck as Spill #92-093.)
8/14/04	2004-IR-1014988	BOC, BOC KITCHEN TO PAD, Non Process Area	Sewage	11.00	AT 10:30 PM, CAMP MAINTENANCE LEAD MIKE BARNER WAS CALLED BY SECURITY THAT WATER WAS LEAKING OUT FROM UNDER THE BLDG AT BOC. BARNER FOUND THAT A PLUGGED SEWER LINE HAD BACKED UP AND SQUEEZED OUT AROUND THE LID OF A SUBFLOOR GREASE TRAP, AND LEAKED OUT THROUGH THE FLOOR OF THE SKID SPACE INTO SECONDARY CONTAINMENT AND ONTO THE PAD. BARNER SNAKED OUT THE LINE AND CLEARED THE BLOCKAGE.	The contaminated gravel was removed from the gravel pad with a loader and hand tools. The free-standing liquid was removed with the sewage truck. The affected area was decontaminated with a bleach & water solution.	The contaminated gravel was taken to Pad-3 disposal facility. The liquids in containment were removed with the sewage truck and will be taken to the sewage treatment plant or pad-3.	
2/12/85	1985-IR-95946	Pad 3, Not specified	Diesel	11.00	Relief valve opened	Not specified	Not specified	Not specified
2/21/84	1984-IR-96152	Seawater Injection Plant, Not specified	Diesel	11.00	Loader hit pallets	Not specified	Not specified	Not specified
12/13/85	1985-IR-95942	Drill Site 09, Not specified	Crude Oil	11.00	Flow line leak	Not specified	Not specified	Not specified
2/15/84	1984-IR-100676	Not specified	Crude Oil	11.00	Flowline leak	Not specified	Not specified	Not specified
11/7/06	2006-IR-2046064	Well Pad D, D-05 cellar, GC1	Diesel	10.00	DHD lead was working on well D-05 found the fluids in the well cellar. He promptly notified operation. GC1 Operations called the spill hot line. After reviewing the well logs, talking to the well pad operator, and discussing the situation with the DHD lead, no conclusive root cause for the fluids were identified. Discussions were made to conduct a MIT (mechanical integrity test) and the team determined the source of the fluids was residual from a previous event and the MIT was not performed.	A vac truck was dispatched and removed all the fluids in the well cellar. A super sucker was used to remove approxmiatley 10 cubic yards of gravel and water.	The fluids were sent to GC-2 for hydrocarbon recycle. The gravel/water was taken to Grind & Inject Facility.	11/15/06 After reviewing the well logs, talking to the well pad operator, and discussing the situation with the DHD lead, no conclusive root cause for the fluids were identified. MIT was conducted on 11/19/2006 and results showed no signs of problems with this well. On 11/20/2006 Tom DeRuyter with ADEC requested that 2 samples of the gravel from the cellar be taken and analyzed for DRO. Samples were taken and sent to Arctic Fox Lab. Samples did not pass for DRO and Tom DeRuyter requested that gravel be removed from the well cellar. The gravel was removed and the well cellar re-sampled on 12/13/06 and samples sent to Arctic Fox Lab.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/31/04	2004-IR-1036091	Flowstation Common Lines, 200 yards east of FS-3, Non Process Area	Crude Oil	10.00	CIC technician called control room and said there was a leak on the common line. Operators responded and discovered a small drip coming from 24" line out of insulation. Drill Site operators diverted production to other common lines and line was depressured. SRT was called.	Vacuumed up the crude and water with a vac truck. Sorbents were used to wipe up the area. Then the contaminated area was burned.	Contaminated water was sent to Pad 3 for disposal.	On Sept. 2nd a spill review was held at FS-3 to review the incident and to determine how the risk of a re-occurrence of this type failure could be reduced (see document attached to Traction report). In attendance were FS-3 Operators, FS-3 Ops Lead, FS-3 DS Ops lead and FS-3 AM, CIC TL, CIC piping inspector, ACS lead, the CIC technicians that found the leak, and the GPB, Environmental Advisor.
11/4/07	2007-IR-2456276	Drill Site 14, Ds14, East Operating Area, GPB, FS3	Methanol/ Diesel (50/50)	10.00	While pumping methanol down IA of well, from portable methanol tank, valves were not properly aligned, allowing methanol to go into onboard diesel tank, overfilling tank and allowing app. 10 gals. of methanol and diesel mix to spill inside and outside test unit.	Sorbents were used to recover free liquids. Contaminated snow and Gravel were removed using hand tools, bobcat and dump box.	The sorbents were sent to the BP waste coordinator for disposal. The contaminated snow and gravel were sent to Pad 3 for storage and remediation.	All agencies were notified of release. The contaminated gravel had a strong diesel odor and exhibited none of the characteristics of a methanol spill. The gravel was damp and stained but not wet. There was no methanol odor and the flash point of the sampled gravel was greater than 140 degrees.
6/17/05	2005-IR-1416310	L-3, L3-NK swi tie-in, GPMA	Seawater	10.00	L3 operator noted seawater leaking from under blanket on a 2" ball valve (high point bleed) on the tie-in line from the main PSI pipeline to the L3-NK pig launcher module. Blanket was removed and he found the source of the leak to be the body bleed on the valve. Tightening the bleed valve sealed the leak. Special Note (by R. Rodriguez): This line was commissioned summer of 2004 as part of WW2. Integrity checks at time of commissioning revealed no issues. Area is a high snow drift location that can and does cover the pipeline.	TBD by SRT and State	None.	Samples taken it the spill location as well as the perimeter show very low conductivity readings. It was agreed by Walt Sandel of ADEC, and the BP Enviromental advisor to let the remaining snow in the area to melt and sample again later i the Summer. NOTE: This is a final report.
10/20/97	1997-IR-90456	MOWF Stores	Sewage	10.00	Utilities truck operator was in the process of vacuuming the sewage system when the 3" copper line separated from the fitting, spilling approximately 10 gallons of raw sewage. Sewage spilled into the arctic entryway from which it dripped through onto the ground below. Line separated from a no-hub fitting, also there was no thrust block (support) at a 90 degree elbow located downstream of the break. OI Services spill tech notified.		All recovered material will be recycled through CSTF.	Utilities truck operator was in the process of vacuuming the sewage system when the 3" copper line separated from the fitting, spilling approximately 10 gallons of raw sewage. Sewage spilled into the arctic entryway from which it dripped through onto the
9/11/03	2003-IR-618730	Well Pad B, GC3	Crude Oil	10.00	During the daylight hours, one of the contract crews noticed evidence of crude oil floating in the TS vent pit on the west side of Skid 57. After the Spill Technician arrived, it was determined that approximately 10 gallons were accumulated inside the gravel pit. There had been no venting activity into this pit for quite sometime and the source is unknown. The only venting event to take place near this pit within the last year was a result of venting gas from the Skid 86, the MI module, located on the pad. At the time of this spill, it was determined that a check valve on the 24" LDF leaked slightly and filled the vent line from this module with crude oil and water. Some of this previous liquid could have originated from this earlier problem and just now made it to the venting pit.	The ring of crude oil on the gravel wall was removed with shovels and placed into oily waste bags for disposal transportation. The affected tundra areas were burned as stated in the attached ADEC approved clean up and disposal plan.	The contaminated gravel and ice will be taken to Pad-3 for disposal.	A sheen was called in on 6/17/04 from the same area that was affected from this original spill in the tundra mat. EPA and ADEC were notified by Enviro Advisor of sheen and clean up is being performed by ACS Spill Techs with Vac truck.
12/3/03	2003-IR-700079	Well Pad X, Outside X-Pad test separator dump pit.	Produced Water	10.00	There was a spill from X-Pad test separator when rupture disk blew out as a result of GC-3 LPS shutdown.	The contaminated snow on the tundra has been removed with shovels/brooms, placed into snowmachine trailers and transported to pad area. Once snow was on the pad it was loaded into dump trucks and hauled to Grind and Inject disposal facility, as per the clean up and disposal plan authorized by ADEC.	Grind & Inject Facility	Due to gas venting in area spill technicians were unable to access spill until it was deemed safe to do so and situation was under control approximately 8 hours after internal notifications were made.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/6/01	2001-IR-132063	PM-2, PM2	Sewage	10.00	The drain valve for the envirovac holding tank leaked-by, onto the ground.	Hand tools and bobcat and dump box were used to remove contaminated material from location.	Contaminated material was picked up and disposed of by SRT and taken to Pad 3.	While a large icicle had formed between the valve and the pad due to the leak (estimated at 10 gallons), only a small amount of sewage (estimated a 1 gallon) actually reached the pad.
1/30/02	2002-IR-160619	Drill Site 13, Drill Site 13, Backside of pad	Hydraulic Fluid	10.00	While working with the D8 R caterpillar # 56-305 on DS 13 the equipment experienced a transmission hose failure. The operator shut down the machine and called his supervisor. The hydraulic oil was contained. A new hose was assembled and put on the dozer. The machine was then brought into the EOA Heavy Duty Shop and all hoses were inspected for wear.	Loader, bucket, and dump box will be used to remove contaminated material.	Contaminated material was brought to Pad 3 for disposal.	Spring monitoring will be done to ensure proper clean up. Note: This spill report number is 02-013, Not 02-014 which was on the initial report.
10/28/05	2005-IR-1596335	Drill Site 11, FS-2 Drill site 11 well 2 SWI injection line. Approximately 120 feet from the manifold bldg., FS2/COTU	Seawater	10.00	Operator noticed an icicle approximately 24 inches long hanging from the insulation on the SWI line going to well 2. He removed the icicle cleaned the area of snow and watched for a leak. After a while drips started coming from the insulation. A half barrel was placed under the drip and the well was shut in the manifold building. The leak was reported, the line was depressured, evacuated and blinded in the manifold building and at the wing valve. Insulation stripping was started and CIC has been contacted to locate the source of the leak.	Hand tool were used to reomve contaminated snow and ice from affected area.	Material will be brought to T Pad for disposal.	Agencies were notified of release. NOTE: This is the final report. After corrosin group finished work, remainder of clean up done.
10/4/02	2002-IR-330674	COTU Facility, COTU Flare Pit	TEG	10.00	A plant ESD which normally shuts in fuel gas to the COTU and opens BCV 71 to relieve existing fuel gas pressure to the HP Relief Line to Flare apparently moved an estimated 10 gals. of residual glycol in the line to the COTU flare pit.	Test results from water came back negitive. No further clean up will be done Per Amanda Leffel.	None	Amanda Luffel of ADEC,ADNR,and NSB were notified verbally at time of release. Sampling was done, and the results were negitive.
4/2/99	1999-IR-93650	Well Pad D	Diesel	10.00	A Dowell Nitrogen (N2) truck was dispatched to the Coil Tubing Drilling Unit, on D-Pad, to pump N2 down the coil. Driver was traveling on the D-Pad access road, in route to the CTD Unit when he met a Nordic truck exiting the pad. The N2 driver looked to the left, in his driver's side mirror to locate the vehicle he had passed. In doing so he steered the N2 truck to the right causing the right front wheel to leave the edge of the road. Driver immediately attempted to turn the vehicle to the left and then realized that the vehicle was going to travel off the road. He then turned the steering wheel to the right in an attempt to avoid rolling the vehicle. The vehicle continued off the road and when it came to rest in the snow, rolled over onto it's right side. The employee disengaged his seatbelt, exited the driver's side door and disconnected the batteries. He then went to the CTD Unit to report the incident. Security and the BPX Environmental team were dispatched to location. The driver of the N2 Truck was taken to the Medical Clinic for evaluation and released with no treatment. BPX environmental placed spill containment dike under the fuel tanks and engine compartment to minimize contamination. Peak dispatched their 4100 Crane and two Cat Dozers to up-right the vehicle. After the vehicle was removed from the tundra, the initial environmental assessment revealed 4 gallons of lube / hydraulic oil and 10 gallons of diesel had been release from the vehicle onto the snow covered tundra. The driver of the vehicle was transported to Dowell Schlumberger Yard to complete the manditory drug / alcohol screening. Dowell Management then began their initial investigation of the incident. The driver stated that the vehicle was in proper working order, he was not rushed or distracted in any manner, and fatigue was not a factor in this incident. The driver stated that the cause of the incident was the result of inattentive on his part. The driver of the N2 vehicle has been employed with Dowell since 1974 and his primary responsibilities include working in the shop and driving the N2 Truck. Dowell records revealed that the employee had completed an 11 day driving course, annual comentary drive, and a recent defensive driving course and was current in all of Dowell driving policies. Dowell nor BPX Security have any record of prior vehicle accidents or moving violations for this employee. The employee was one week into a two week hitch and had 8 hours of sleep the night before the incident.	Spill Response Technicians placed spill containment dike under the fuel tanks and engine compartment to minimize contamination. Contaminated snow was removed from the spill area with equipment and hand tools.	8 yards of hydraulic oil contaminated snow was taken to ARCO Pad 3 for disposal. 15 yards of diesel contaminated snow was taken to Pad 3.	Verbally reported to ADEC on 4/2/99. Site was inspected by Environmental on 6/24/99 and no remaining contamination was found.
4/13/01	2001-IR-101219	Well Pad M	Hydraulic Fluid	10.00	Hydraulic hose failure on a loader at the snow removal project on M pad.	Loader and sorbents were used to clean affected gravel.	Sorbents will be put in NSB oily waste dumpster. Affected snow was taken to PAD 3.	Loader was repaired. This information is being provided to fulfill the spill notification requirment under 18 ACC75.300.
7/16/05	2005-IR-1460827	GC-2, H-2 well Cellar., GC2/SAT	Diesel	10.00	While Operator was doing there daily rounds discovered 10 Gal diesel spill in the well H-2. Cause is under investigation. Suspect that it came from Casing Head addapter. Well pressures will be monitored for changes. Well is shut in and have no plans to flow at this time.	Hand tool and a hand pump were use to clean affected gravel and remove liquids in cellar.	The fluids were taken to the GC-2 for hydrocarbon recycle. The gravel will be taken to Pad 3.	Well pressures will be monitored for changes. Well is shut in and have no plans to bring on line at this time.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/22/01	2001-IR-118406	Well Pad P, GPB P pad well 25	Methanol	10.00	HB&R crew was assisting Slickline on P-25. Crew had rigged up hardline to Inner Annulus, and had connected a 20 BBL methanol trailer to unit. The crew pressure tested hardline with Methanol then shut the valve to trailer and bled back pressure to the HB&R unit tanks to prevent full trailer from overflowing. The HB&R unit was loaded with 190 BBLS dead crude. Crew then rigged up a jumper line to the slickline lubricator to pump 1-2 bbls of methanol down the lubricator. The HB&R operator then opened the valve to methanol trailer again, and started pumping at a minimum rate. The operator realized he had not shut his tank valve, so he shut it and asked the ground man to go and look at the trailer. Differential head pressure, from the HB&R unit tanks had caused methanol to escape out of trailer hatch and vent lines. The ground man went up and shut the trailer's hatch, and in the process was splashed with some of the fluids. Approximately 10 Gallons of fluid was spilled out of the trailer, which had no secondary containment, and onto the gravel pad. The HB&R Operator immediately shut down the job and contacted his supervisor, the spill report line (5700), the BP Supervisor, and notified the Slickline crew of the incident. The HB&R crew then began laying down absorb to contain the spill. HB&R supervisor arrived on scene at approximately 12:40 and sent ground man to camp to shower and change clothes. There were no injuries as a result of this incident.	Loader with a bucket and hand tools were used to clean affected gravel from pad.	The contaminated gravel was given to the Hazwaste coordinator to be shipped to a hazwaste facility.	Workers on site cleaned up free liquids with absorbent materials to minimize penatration in the gravel pad.
11/29/06	2006-IR-2070832	Well Pad P, P-pad, in front of well # 9., GC1	Methanol	10.00	Crew had connected methanol source tank to the tri-plex pump in preparation for testing well service surface equipment then proceded to another task of opening the wing valve on the well as directed by production control. Upon returning to the triplex pump approximately 10 minutes later the lead assistant discovered the sump was overflowing with methanol which had drained from primer hose through needle valve that he had previously opened but falied to close in prior to initiating another task. Employee closed in needle valve and began mitigation and notification process.	A Bobcat and shovels were used to clean affected snow and gravel.	The snow was taken to an SRT melt tank at Santa Fe pad to be recycled for freeze protect fluids. The gravel to the GPB Waste coordinator for hazwaste.	The verbal notification was made on 11/30/06 at approximately 0710 by the GPB West Enviromental advisor.
4/25/01	2001-IR-101288	Spine Road	Diesel	10.00	An HB&R Hot Oil unit was dispatched to Drill Site 13, Well 09. While in route to location the driver of the unit thought that he forgot to stop at the POL and load the diesel so he was going to pull over to the side of the road and ask his co-worker, who was in the pickup that was following him, if they needed to turn around and go load the diesel. While he was slowing down to pull over on the Spine Road, near Pump Station 1, fluid from the secondary containment sump under the pump motor and high pressure pump flowed over and went to the front of the unit and spilled out a side door. This door has a gasket around the edges of the door but did not have a good enough seal to hold the fluid inside the unit. The driver of the pickup pulled behind the unit and noticed that fluid was coming out the side. He immediately called his supervisor. The supervisor then notified the Spill Hotline at x5700. They dispatched the WOA spill techs who determined that 10 gallons of dirty diesel had spilled onto the roadway. The Spill Technicians cleaned up the contaminated gravel and took it to Pad 3 for disposal.	Material was cleaned up with a loader, dump truck and hand tools.	The contaminated gravel was taken to Pad-3 disposal facility.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300.
9/6/02	2002-IR-306861	Well Pad E, E-09	Sewage	10.00	Sewage truck driver arrived rig and hooked-up to the sewage line on the off-driller’s side of the rig. He then opened up the wrong sewage line valve for discharge via the driller’s side of the rig. About 10 gallons of sewage water leaked via the line on the driller side onto the pad. Apparently, the sewage line on the driller's side was not capped. The ACS Spill Technician and HSE Advisor were contacted for follow-up and further investigations. The affected area was subsequently coned off and disinfected using bleach. The primary cause of the incident was the failure of the sewage truck driver to sign-into the Ops cab when he arrived the rig. The pad entrance rig sign demands all visitors to sign-in on arrival on the rig and a greater concern is that the truck driver entered the rig substructure (mud pump room) during a BOP pressure testing operation. Also this particular driver has been previously instructed to sign-in whenever he arrives on the rig as this would allow a rig personnel to be assigned to him to oversee what he's doing and also open the necessary valves for him. A contributing factor to the spill was the lack of a cap on the sewage line to act as a secondary barrier in the event of an unplanned discharge via the sewage line.	The affected area was subsequently coned off and disinfected using bleach. Further clean-up will be carried out after the rig has moved off location.	All of the contaminated gravel will be taken to T-pad for disposal.	This has been reported to ADEC Division of Air & Waste Water Quality on 9/6/02 12:35 p.m.
3/11/01	2001-IR-101014	Access Road, Non Process Area	Diesel	10.00	During pad inspections a diesel spot was discovered on texaco pad. No source or cause was found for the spill. The pad is currently being used by Houston Contactors which is in support of the KEOR project.	Hand tools and a loader were used to pick up the contaminated snow. The gravel was removed by a Bobcat and trimmer.	The diesel contaminated snow was brought to MPU D-Pad snow melter where it was melted down, diesel skimmed off and used for freeze protection.	A verbal notification was made on 3/11 to the Troopers and on 3/13 to ADEC and ADNR.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/17/05	2005-IR-1416567	GC-2 Pad, GC-2, GC2/SAT	Sewage	10.00	Utility truck driver reported that while emptying the temporary restroom facility holding tank there was a release of sewage water.	A loader was used to remove contaminated gravel.	Pad 3 disposal facility.	Verbal notification was given on 06-18-05 at 0915 by the WOA environmental advisor.
5/7/02	2002-IR-218658	GC-3 Pad, Behind SK-4 at GC-3 at Prudhoe Bay AK	Methanol	10.00	On the morning of May 7th the CIC group noticed the corrosion coupon fitting had been leaking for some time on A-45 6" flowline behind SK-4. The well was freeze protected Nov. 21-01. The leak had not been noticed before now because the area was covered in snow.	Hand tools were used to removal contaminated snow from under lines.	The material was put into a melt bin and will be reused for freeze protect fluids.	This line was freeze protected with Methanol and dead crude in November of 2001.
7/9/03	2003-IR-563055	Pad 3, DS-6---Pad-3	Fresh Water	10.00	De-watering operation, drove to Pad-3 to offload truck after loading water from T-Pad. Walked to back of truck and noticed water leaking . Placed two containments under the area leaking, called dispatch who informed SRT who responded.Sample of water was taken to the Lab for testing revealing, basically snow melt. Leak was occurring from piping upstream from the rear valve. Truck was off-loaded to another vac truck and vehicle driven to the base shop for repairs. Srt cleaned the gravel with a bob-cat and loaded onto truck and removed from the area.	Contaminated gravel was recovered with a bobcat.	Material was disposed at Pad 3	Water released was snowmelt from the pit at T-pad disposal facility.
7/2/01	2001-IR-101742	COTU Facility	Crude Oil	10.00	While checking under abandoned crude heater, an old spill was uncovered under old caked up absorbent pads. This is an old spill. Spill Review conducted on 7/03/01. Operator installed new gauges on inlet and outlet piping in manifold doghouse and recorded approx 20 psi, crude oil is still present in lines. Lines apparently were not fully drained or flushed when decommissioned. Timeline: 1986 thru 1988 - Blinds were installed at H-3. This is probable time of decommissioning which also included closing block valves at H-1 & H-2. 1992 - P & ID drawings produced showing H-3 not in service. 1994 - Hazard Analysis done for COTU	Recovered with hand tools and super sucker	6 cu yds of lightly contaminated material was taken to pad 3 for disposal.	This information is being provided to ADEC per 18 AAC 75.300
6/14/01	2001-IR-101682	Drill Site 11	Crude Oil	10.00	Upon restart of the SIP and reintroduction of pressure to the SWI system, the SWI pig receiver isolation valve failed to seat properly. The pig trap pressued up to SWI pressure of approx. 2800 psi at which time a the PSV, set for 3400 psi on the pig receiver relieved prematurely. Flow from the receiver entered the sump vessel in the manifold building with enough force to damage the antiquated level indication/alarm system within the vessel. This damage resulted in preventing the high level alarm from sounding. The level in the vessel came up until they exited the vessel via it's vent to atmosphere. The fluids, consisting of approximately 5 gallons of crude and 10 BBL of sea water accumulated on the gravel pad until the operator, on normal rounds, noticed the problem. None of the fluid left the pad to contact the tundra. All fluid was properly disposed of by SRT.	Freestanding fluids picked up by vac truck.	Pad 3 injection.	This information is being provided to ADEC per 18 AAC 75.300
7/16/00	2000-IR-95392	Well Pad R	Crude Oil	10.00	Approximately 15 gallons of crude oil and water was removed from the well cellar of well R-28. The material appears to have broached to surface via the conductor pipe. The cause of the leak is under investigation by the Well Integrity Team Leader and the Anchorage Production Engineer. This LCIR was entered on behalf of the Well Operations Team Leader by the APC Safety Specialist.	The water and oil was removed with a vac truck. The contaminated gravel was removed by a supersucker.	The fluids were recycled for freeze protection. The gravel was taken to Grind and inject.	There is currently no visible fluids in the well cellar.
5/13/05	2005-IR-1366746	Access Road, Pipe line road between GC1 and Put River, Non Process Area	Hydraulic Fluid	10.00	While doing snow removal with a snow blower # 53-011 on the pipe line road between GC1 and GC3 the blower experienced a failure of the angle head drive motor and leaked approximately 10 gallons of hydraulic fluid to the pad.	Heavy equipment and hand tools were used to clean affected snow.	The contaminated snow will be taken to T-pad storage facility	Investigation planned as to the cause of motor failure.
4/3/03	2003-IR-477094	Airport Road, Airport Road and South Hanger. Between central check point and DSM.	Lube Oil	10.00	Employee was enroute to Pad 3 to deliver a load. As employee proceeded in the direction of East Security Check Point travelling on Airport road employee reached for a water bottle on the passenger seat. As employee reached for water bottle the Vac truck drifted off the road and rolled onto the tundra. Employee was not injured. Employee following the driver notified dispatch immediately. Wells Support employee's mitigated the spill by evacuating the fluids off the unit with another Vac Truck. Approximately 120 barrels were removed from the unit. No one was injured in the incident.	Material was picked up using hand tools and put into dump box for disposal. Spill areas on tundra were lightly burned.	Recovered material was taken to T-pad for disposal	Fluids spilled may contain traces of diesel and glycol
11/20/05	2005-IR-1623338	Drill Site 15, Inside the wellhouse at drillsite 15-26, FS3	Corrosion Inhibitor	10.00	The Corrosion Inhibition Batch truck driver was injecting chemical into well lines at drillsite 15. Employee had encountered a few wells that had ice plugs in the injection point, and had to watch his gauge to make sure it matched the flowing pressure of the well. After hooking up to well 15-26 he began pumping as normal, but after finishing the treatment and entering the wellhouse, he discovered that his injection hose had developed a pinhole leak spraying approximately 10 gallons of corrosion inhibhitor inside the wellhouse. The truck operator notified SRT and operations personnel.	Contaminated snow out side the well house was recovered with a bobcat and placed into a dump box for disposal. The floor and walls were wiped down with cleaner and rags. A super sucker was used to recover the contaminated gravel in the cellar.	Contaminated snow was taken to T-pad, The rags will be disposed as Hazardous waste and the gravel was disposed at Pad-3.	Approximately 1/2 pint misted outside the well house.
7/12/03	2003-IR-566985	Seawater Treatment Plant, seawater treatment plant	Seawater	10.00	ammonium bisulfite mixed with seawater leaked out of a check value on a chemical injection line going into a deaerator tower, leaking about 1 gallon of ammonium bisulfite mixed with 10 gallons of seawater on the floor. shut down the chemical imjection of the chemical then vacuum up the spill then disposal of the liquid into the chemical sink located on one of the deaerator towers	A wet vac was used to recover the material.	Recovered fluids were put back into the system for it's intended purpose.	Spilled material contained 10% Ammonium Bisulfate

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/20/03	2003-IR-488932	Well Pad C, C-Pad	Crude Oil	10.00	While circulating oil returns from the wellbore to the cuttings tank crude ran out of an uncapped 3" collar approximately 1' below the top.	All of the contaminated snow and gravel has been removed from the gravel pad with heavy equipment and hand tools.	Contaminated snow has been taken to T-Pad storage pit.	Rig has been moved and clean up is 100% complete.
5/9/04	2004-IR-1056685	Well Pad Z, Z Pad, potentially on tundra, GC2/SAT	Hydraulic Fluid	10.00	Alleged spill of 7 to 10 gallons of hydraulic oil on the ground from Doyon drill rig hydraulic lines on the booster tires quick connects when preparing drill rig for move from Z Pad to W Pad.	unknown		alleged spill under investigation. NRC # 734635.
3/5/04	2004-IR-826207	PM-2, Point Mac 2 under module 4923, GPMA	Sewage	10.00	Operator found some sewage ice on effluent line coming out of building soffit. Soffit inspection cover opened and suspect leaking wax ring.	Area was flushed with hot water and recovered with a vac truck.	Recovered material was taken to Pad 3 for disposal.	Immediate verble notifications were made.
5/12/04	2004-IR-901508	C Pad, C-pad Chemical Loading area, Non Process Area	Corrosion Inhibitor	10.00	At approximately 4:50 PM today a corrosion inhibitor spill was discovered on C-Pad. While a C-Pad warehouse loader operator was clearing snow around our tanker trailer for removal, he discovered the spill. The spill appears to have occurred due to a gasket failure on the manifold connecting compartments under the tanker belly. This is an older tanker that normally is used for staging chemical on the west side of the Kuparuk River during spring thaw, and does not see a lot of activity other than temporary storage, for which it has been used all this winter. In was sitting on underground secondary containment. The tanker was snowed in, thus the presence of the loader. All notification where completed on in a timely manner. SRT arrived at C Pad and evaluated the location of the release. The C pad loader was used to scrape all loose snow from the area of the spill. The loader was unable to remove enough ice to allow the scope of the release to be identified. On the morning of the 13th an air-powered jackhammer was brought out to chip all contaminated ice at the site. The ice and snow was removed from a 10 x 20 foot area. The recovery of contaminated gravel continues. The tanker has been drained and moved to another location on site. The snow that was packed around failed connection has been removed and handled by SRT. At this point a volume estimate cannot be made, until SRT completes its work.	Bobcat, Loader, and dump box were used to remove contained material.	Contaminated Snow and ice went to T pad, contaminated wet gravel went to CC2A pit for disposal.	Notifications were made to all agencies.
9/19/07	2007-IR-2439868	Central Compressor Plant, Module 4923 at CCP., CGF/CCP	Sewage	10.00	Holding tank was out of service for repairs. While tank was out of service the level backed up and spilled to pad.	Absorbent's were used to remove standing fluid's. lime was then placed on efffected area.	Solid waste site.	DEC Waste water was notified of release.
3/23/06	2006-IR-1769163	G&I Facility, Hootch #4, 8" injection line from G&I, Non Process Area	Seawater	10.00	A seawater injection line at G&I was in the process of being repaired.It was open and being blown down when an ice blockage broke loose and trapped seawater was expelled onto the tundra.	Hand tool's and a loader were used to remove contaminated material.	Material was put back in to system to be disposed of.	Agencies were notifided of release.
1/15/01	2001-IR-95871	Point MacIntyre	Crude Oil	10.00	Schlumberger Coil Tubing Unit #8 was rigged up at GPMA, PM-2-13, performing a hot oil jet treatment when the coil ruptured at surface spilling approximately 10 gallons of dead crude. The crew had rigged up to the well and was in the process of pumping dead crude at a rate of 1 barrel per minute and 2050 psig throught the tubing. The well was flowing to the facility and the wellhead pressure (WHP) was 770 psig. The crew ran in hole (RIH) after a weight check of 15,500 pounds at 8000 feet. When they began to RIH they developed a pinhole and ruptured the coil. The coil burst as it was coming off the backside of the reel between the op's cab and the coil tubing unit's counter. The Supervisors on location stopped the coil tubing, shutdown the pumping operation, closed the pipes and set the pipe slips in preparation to cut the coil and secure the well. The coil tubing was bleed off and the check valves held tight with no well bore entry. The crew immediately contacted the Well Operations Supervisor, Schlumberger Supervison and APC Safety to inform them of the incident. The Environmental Department was notified and arrived on site to assess the scene. The coil tubing had seen 230,000 running feet and is not normally changed out until 650,000 to 700,000 running feet of service. The wear at the point of failure was approximately 15% of the coil life. The maximum wear on the entire coil is only 30% of life. At the time of the incident, the ambient temperture was +24 degrees F., and	Will remove with loader and hand tools then place into dump box for disposal	Material sent to Pad 3 Snow Melter Pit.	Spill 100% cleaned up at this time.
1/24/06	2006-IR-1699886	West Gas Injection, WGI blow down pit and adjacent snow-covered tundra, Non Process Area	Diesel	10.00	Wireline reported external leak from WGI-08 wing valve during well work. Maintenance needed the line depressured to effect repair. During blow down process fluid was released to pit and wind blown beyond boundaries of pit misting snow-covered tundra adjacent to pit.	Loader, bobcat, dumpbox, snowmachines, hand tools were used to remove contaminated snow and ice from inside the pit and over the tundra.	Material taken to grind and inject facility for disposal.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/23/02	2002-IR-271820	G&I Facility, Grind and Inject #4	Seawater	10.00	Vac Truck driver was off loading 1% KCL into tank. When the tank was full, Vac Truck driver turned off his pump and started to evacuate the line to remove any remaining product. When the vacuum gauge begin to show a loss of vac, the driver disconnected the line from the tank. The gauge indicated that a vacuum was achieved and no product should have been in the line. The Vac Truck driver had containment under the fitting, but it was not large enough to contain the spill. The Vac truck driver immediately reported the spill and was instructed to cleanup and bag. ACS would be out in the morning to do the final cleanup and disposal.	Recovered material with Bobcat loader and placed into dump box for disposal.	2 cubic yards of material taken to T-pad for disposal.	Initial notifications made 7/23/02
5/6/04	2004-IR-893804	Drill Site 02, Onto ice on DS 02 pad, center of pad below rig camp., FS1/SIP/STP	Sewage	10.00	At about 0600 hrs the Nordic 1 toolpusher noticed his shower stall overflowing inside the rig camp bathroom. He went outside and found the camp gray water holding tank overflowing. He immediately shut off water to the camp and notified the BP Supervisor. ACS was notified and they came out to camp site and estimated the release as 10 gal of gray water. The gray water was frozen, so it was loaded into aa ACS dumpster and disposed of. The Gray water holding tank had a "full status" alarm that did not sound.	Used rig loader to load frozen gray water into a dump box for disposal.	Contaminated material was taken to T-pad for disposal.	Immediate notifications were made.
5/26/05	2005-IR-1384626	Spine Road, Spine road across from the MCC complex, Non Process Area	Hydraulic Fluid	10.00	Water truck and trailer unit # 42-010, #68-051 was positioned adjacent to a water source to fill the tank with water for dust suppression. The operator went to the passenger side of the vehicle, which was within 2 feet of the water he would be drafting from. He first attempted to use a remote valve actuator unsuccessfully. He opened the door to the valve box to troubleshoot and upon opening the door on the trailer an unexpected deluge of hot hydraulic oil poured forth drenching his chest, legs, and right forearm and spilling out onto the bank and into the water. The operator quickly shut the door to minimize the spill and placed a containment liner. SRT was notified. A seperate report, IR 1384620, was created for a first aid that resulted from this spill.	Contaminated water and oil was recovered using a vac truck. The contaminated gravel on the bank of the water was recovered with a super sucker. The contaminated area on the road was cleaned using weed burners, absorbents, and floor dry.	Recovered fluids and gravel was taken to Pad-3 for disposal.	Immediate notifications were made
10/28/04	2004-IR-1106207	Northern Gas Injection (NGI), 1502 style (hammer union) connection on line between well OA connection and receiving slop tank., Non Process Area	Produced Water	10.00	A 1502 connection began to leak when fluids circulated from wellbore cleanout heated up the line and possibly expanded the connection that had been made when the line was cold. The containment pan underneath the connection filled up and overflowed onto the pad between Rig 4ES and the Tiger Tank.	Used flat-nosed shovels to scrape slush into piles and scoop them into open-topped, 5 gallon buckets	The slush was poured from the buckets into the rig mud pits and mixed in with 9.8 ppg brine for further circulation through the wellbore.	Agencies were notified.
10/30/04	2004-IR-1108472	Drill Site 15, DS 15 # 41, FS3	Diesel	10.00	Rigged up with E-Line to add perforations to 15-41b. Perf gun was hanging in lubricator, pumped 5 bbls. meoh & 25 bbls. crude into well to reduce underbalance. Bled off gas from well down to 1500 psi. Bleed off was shut in & RIH with perf gun. At approx 2700' of depth it was discovered that the bleed tank (# 94-613) had overflowed with crude oil. Operation was stopped notified SRT, co. rep. & HSE. After meeting with spill response. Absorb was laid over crude oil on ground around tank. A mist of oil had drifted from tank & covered a sizeable area with a mist of crude. This was swept back around the bleed trailer to keep from spreading to a larger area. The bleed trailer was wiped down with absorb & placed in oily waste bags. A vac truck recovered crude from spill pan on trailer & evacuated the trailer. The perf gun was then pulled to surface & unit rigged down. Crane was wiped down & moved ahead. Well was secured. Hoses & cables wiped down & spot cleanup around well. Moved logging unit & crane off location.	Bobcat, Loader with Trimmer, and dump box were used to remove material.	Contaminated material went to G&I for disposal.	Agencies were notified.
1/23/01	2001-IR-95913	Drill Site 15	Methanol	10.00	The employee had hooked up a 3 inch hose to tanker #30014 of 60/40 Methanol. While walking to connect other end of the hose to the suction manifold of the coil tubing unit, the employee was distracted by an appearence of something coming off the injector near the back deck and well house area approximately 75 feet away. The open end of the hose was set inside a half drum which was sitting inside a 4'x 5' containment dike. There was nothing found to be out of order after investigating the back deck area and injector. The employee returned to the previous task of connecting the 3 inch hose to the suction manifold of the coil tubing unit. The employee observed another 3 inch hose (water) connected to the coil tubing unit giving the appearence that the 60/40 Methanol hose was hooked up. The employee proceeded to open the valve on the tanker to fill the hose. The employee then proceeded to the suction manifold on the coil tubing unit, approximately 20 feet away, to bleed the air out of the hose. The employee saw the 60/40 splashing from the half drum into the containment dike and spilling over onto the ground. The employee immediately closed the valve on the tanker and stopped the spill. Notifications were made to the supervisor and SRT at 5700. The area was cleaned.	Sucked methanol from half drum back into tanker. Shoveled contaminated snow into drum, melted snow/methanol mixture and reuse as freeze protection fluids.	Reuse as freeze protection fluids.	Spill 100% cleaned up.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/21/04	2004-IR-1179850	Well Pad E, E-10, GC1	Corrosion Inhibitor	10.00	Chemical Operator checked chemical rate on well and found that the rate was low. He then inspected the system to identify whether there were any restrictions, or damage to the incoming line. He found a slow leaking fitting on the incoming line. Under further inspection he found the fitting to be loose, but undamaged. It is unclear when the leak started. SRT has estimated the volume to be 10 gallons. A considerable amount of construction and maintenance had been done on this area over the past 3 months by other organizations.	The contaminated snow and gravel was shoveled up in oily waste bags.	Contaminated snow was melted down, diluted and taken to Pad-3. Contaminated gravel has been placed in 55-gallon drums, overpacked and delivered to Haz-Waste Shop to be shipped offsite to an approved hazardous waste disposal facility.	
2/11/07	2007-IR-2154332	Warm Storage, Warm Storage, Non Process Area	Diesel	10.00	While employee was fueling snow blower 53-007 they noticed fuel pouring to the ground. The employee stopped the task and slid a spill dike under the leaking piece of equipment. The Employee ¿fueler¿ called the supervisor and the supervisor notified SRT and the appropriate people in the reporting matrix. AES Safety arrived and made an initial investigation of the leaking snow blower. The initial observation was that the fuel tank was leaking. AES Safety Advised the Forman to have the fuel tank emptied before the snow blower was taken to the equipment shop for repair. After the remaining fuel was removed from the tank of the snow blower, the blower was taken to the heavy equipment shop for repair. SRT cleaned up the spill. The night excavation forman called AES Safety and informed them that the shop mechanic had found the source of the leak. The fuel tank was ruptured and that it appeared to be caused from a rear impact to the tank. AES safety participated in the second investigation and agreed that it was a rear impact that caused the tank to crack. A second finding was that a step had been installed onto the rear bumper of the snow blower to access the engine compartment in such a way that it stuck out farther than the bumper and when impacted it pushed in on the tank causing it to crack. At 9:00 am February 12th, a final investigation was held with the AES Snow Blower Operator, BP team lead step up, AES Roads and Pads Supervisor, AES Safety Advisor, BP Environmental, VECO Safety Advisor and the VECO Equipment Shop Forman. The AES Roads and Pad Forman investigated the area of work that the snow blower operator had been tasked with the day of the incident and could not find any damage that would have been caused from the snow blower backing into an object. The snow blower operator could not recall at any time that they had backed into something. There was no obvious damage to the blower step other than a weld that was broke. The investigation did not surface the cause of the impact to the blower tank. Two suggestions where made to change the step to where it would not protrude over the rear on the bumper and that the operator would review the AES backing SOP.	The oilers truck recovered the fluids in the containment along with the remaining fuel in the tank. A bobcat and hand tools were used to recover the contaminated gravel inside the warm storage building.	Contaminated gravel was taken to Pad-3 for storage and future remediation. Lightly contaminated absorbents were disposed as oily waste. Fluids recovered with the oilers truck will be recycled or reused.	
7/25/03	2003-IR-576334	GC-2 Pad, GC2 west wall of skid 25.	MEG	10.00	Glycol was discovered dripping from the vent line on an abandoned gas flotation cell in skid 25. The heat trace on the outside vent was identified as the source of the leak and was isolated.	The contaminated gravel was put into oily waste bags. The glycol residue on the module wall was wiped clean with rags.	The contaminated gravel was taken to an approved waste storage facility at Santa Fe Pad, WOA. The contaminated rags were taken to the WOA solid waste site at CSP Pad.	
7/25/06	2006-IR-1916888	GC-1, G-09 Well House, GC1	Crude Oil	10.00	After changing out thermo-well on S-Riser, and returning line to service, needle valve was over looked and left in the open position, resulting in spill.	The crude oil on the wellhead and well house walls was removed using rags and absorbent pads. The contaminated gravel was removed using a Super Sucker and hand tools.	The contaminated rags and absorbent material have been taken to approved NSB oily waste dumpster. The contaminated gravel was taken to DS-4 Grind & Inject Facility.	
11/11/04	2004-IR-1124696	Well Pad B, B-Pad Skid 57 Milton Roy chemical pump, GC3	Corrosion Inhibitor	10.00	Milton Roy C model pump failed. DVE4D002 Corrosion Inhibitor spilled inside skid 57 from pump failure. Investigation pending.	Sorbents were used to recover the free standing liquids. The remaining residue has been cleaned with hot soapy water.	The contaminated sorbents were taken to the WOA soid waste facility in Prudhoe Bay. The recovered wash water will be sent to Pad-3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/23/07	2007-IR-2200166	Well Pad Y, Y-09, GC1	Diesel	10.00	While unstabbing the lubricator after a patch setting run, the swab valve was shut and the pressure on the lubricator was bled down the 1/2" bleed line. Once the prssure was near 0psi, the 2" line was opened and fluid started to flow into the slop tank, This was confirmed with the squawk box and also visually. The engineer lowered the tool down from where it had been bumped up, and he touched the swab. The engineer then cycled the tool 4'-5' inside the lubricator. The flow from the 2" line stopped and we believed the lubricator was empty. At this point, there were two open valves on the lubricator. The operators unscrewed the connection above the Quick Test Sub and left one thread on to do a "pop and drop" . The operators popped the lubricator up and fluid started to come from the connection. They immediately tried to lower the lubricator again, but due to the angle of the tree, they were unable to reseat the lubricator. After they saw that they were unable to reseat it, they opened the hoses again to try and drain more fluid that way. The fluid drained down to the broken connection and stopped flowing. We then called SRT, PE, FSM, Pad Operator, and QHSE. We also started to soak up the fluid that was collected by the sombrero around the tree, and the containment around the cellar.	Liquids in the containment around the well tree were soaked up with sorbent material. Snow and gravel were removed using hand tool and a bob cat was also used to remove contaminated snow from the well pad.	The material was class II and taken to the grind and inject facility at DS-4. The sorbents were taken to an approved NSB oily waste dumpster.	
6/2/06	2006-IR-1856875	GC-1, GC-1 Yard outside of skid 497, GC1	Motor Oil	10.00	A portable air compressor staged outside of skid 497 developed an engine oil leak and spilled oil into the built-in spill containment, which overflowed into sencondary containment and the ground below. 2 gallons of engine oil was cleaned up from gravel by ACS.	Cleaned up contaminated gravel with handtools and a loader. Free standing liquid was cleaned up wit absorbent.	The contaminated gravel has been taken to pad 3. Absorbent pads have been taken to an approved NSB oily waste dumpster.	
5/22/06	2006-IR-1842591	Drill Site 11, DS 11-34 cellar, FS2/COTU	Crude Oil	10.00	During N2 lift and warming well oil was identified in the cellar. Further well diagnostics indicate that this well has a surface casing leak. The well is currently shut in and further evaluation is planned for the determination of future operability.	A vac truck was used to recover crude and storm water fom around the cellar. A super sucker was used to recover the contaminated gravel from the cellar.	Recovered fluids were taken to Pad-3 for disposal. Contaminated gravel was disposed at the Grind and Inject facility.	
3/6/04	2004-IR-827027	Well Pad D, Skid 52, D-pad, GC1	Methanol	10.00	D-pad operator during daily rounds entered skid 52 snow shelter and discovered product coming from P-Pilot on line D-5	Sorbent materials were used to collect free standing liquids. Containment snow was put into oily waste bags.	The exempt material was taken to T-pad storage pit. The sorbent material was taken to an approved oily waste dumpster.	
8/7/07	2007-IR-2367776	GC-2, Outside Skid 453, GC2/SAT	MEG	10.00	Bypass line on MEG heat trace to the sump in Skid 453 began leaking at swedge lock fitting.	The contaminated gravel was removed using hand tools. The liquids in containment trays and portable tank were removed and put back into the facility.	The liquids were put back into the facility. The gravel taken to the SRT accumulation bin and will be taken to Pad 3.	
7/1/05	2005-IR-1438237	Central Gas Facility, Module 4951 Heat Trace Line on Stabilizer Tower, CGF/CCP	MEG	10.00	A leak from the glycol heat trace line to the stabilizer tower DP cell was identified after it leaked approximately 10 gal to the top of module 4951. The glycol ran down the side of the module to the gravel pad below.	Contaminated gravel was removed using hand tools. Sorbent material was used to collect glycol from roof and side of module. Contaminated sorbents and gravel will be analyzed for potential hazardous waste characteristics.	Contaminated absorbents were disposed as oily waste and the contaminated gravel was taken to Pad-3 for disposal.	
11/21/03	2003-IR-686977	Well Pad A, A-06 wellhouse	Crude Oil	10.00	O-ring on tree cap leaked crude oil into the cellar of well A-06. The Grease Crew found that the cap was not fully threaded (5 - 6 threads) and the o-ring was not seated.	The standing liquids were pumped into 5 gallon buckets. The tree and ice were cleaned using sorbent material and rags.	The standing liquids were recycled at GC-2, the sorbent material was disposed of in a NSB oily waste dumpster.	
3/8/07	2007-IR-2185589	Well Pad V, In front of V - 122 well house, GC2/SAT	Methanol	10.00	ASRC test unit was pumping methonal down inner annulus for a new well flow back. While preparing to pump down I/A assistant noticed a 2" feed hose with a presure rating of 150 psi; the hose was connected from the meth pup to the tri-plex and was ruptured resulting in a 10 gallon methonal spill. The temperature was -25F with a 10mph wind. Upon further investigation it has been determined that there was a faulty check valve on the inner annulus, this allowed gas to migrate upstream into the tri-plex. The gas leaked through the pump plungers and into the feed line against a closed block valve on methanol pup trailer. The 2" hose over-pressured and ruptured, which resulted in the spill.	The contaminated snow was removed using a loader, hand tools and a dump truck.	The methanol and snow will be melted down and benificially reused on an approved job in the field.	
7/30/06	2006-IR-1927917	Well Pad H, H-31 herculite cellar liner, GC2/SAT	Crude Oil	10.00	During well house inspections, team discoverd crude accumulated in the herculite liner in the cellar of H-31.	Sucked crude out of cellar with vac truck. Pressure washed cellar walls and sucked out residual fluid.	Material was taken for disposal at Pad 3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/27/07	2007-IR-2275727	Drill Site 02, gravel pad in front of rig on well 2-18, FS1/SIP/STP	Calcium Chloride	10.00	While circ KCL water, approx 10 gals leaked into bombay doors of which 5gals leaked through the side of the bombay door containment on to the gravel pad below.	Absorbents on free liquids. Contaminated gravel shoveled up and bagged.	Sorbents wrung out and free fluids returned to system. Gravel sent to Pad 3 for remediation.	
1/6/02	2002-IR-151002	Well Pad R, Pad R Well 09	Diesel	10.00	While conducting a diagnostic mechanical integrity test on the outer annulus of pad R well 09, 10gallons of fluid migrated up the conductor pipe and into the well cellar. 9 out of 10 gallons of fluid flowed back into the conductor pipe. The Environmental Technicians and the 5700 Spill Hotline were called. Fluid volume left in the cellar has been estimated to be 1 gallon of diesel. The well has been secured and tagged to remain shut in. There were no injuries, damage to the tundra or well pad.	Contaminated gravel has been removed from well cellar using super sucker.	All of the contaminated gravel has been taken to DS-4 Grind & inject facility for disposal.	
6/14/04	2004-IR-938129	Drill Site 04, DS-4 pigging return line approximately 10 feet upstream of riser for portable tanks. , FS2/COTU	Produced Water	10.00	The "Dewatering Crew" working on Drill Site 4 notified the operator of an oily substance on the ground beneath a line used to divert pigging returns to portable tanks during pigging operations. On closer examination, the operator discovered a hole in the line approximately one inch in diameter. There was no pigging operations going on and the line was blinded at the time of the discovery. The spilled material had been covered by snow and was revealed by the recent thawing activity.	Vac truck, Hand tool, were used to remove contaminated material.	Fluids were taken to pad 3. Snow, ice, and solids were taken to G&I for disposal.	
10/22/06	2006-IR-2024816	Seawater Treatment Plant, STP East side pad., FS1/SIP/STP	Hydraulic Fluid	10.00	O-ring failure on a hydraulic manifold of a manlift resulted in coating the inside of the cowling which dripped outside the primary containment installed on the machine.	Contaminated gravel was recovered using a bobcat and placed into a dump box for disposal.	Contaminated gravel was taken to Pad-3 for storage and future remediation.	
2/15/03	2003-IR-437424	PBOC, Northwest end of PBOC bullrail	Diesel	10.00	While parked at the NW PBOC bullrail diesel fuel was discovered to be leaking from under the pickup 14-582L. The pickup was running and unattended at the time of discovery. Ambient air temperatures were between -27*F and 31*F. The Truck was turned off and proper notifications initiated. Past repairs were unrelated to the fuel Pre-Heater failure.	Recovered material with bobcat and hand tools.	Liquids will be recycled and solids will be taken to Pad 3 for disposal.	
5/5/06	2006-IR-1823710	Lisburne Production Center, Pad on east side on Module 4951 at LPC, GPMA	MEG	10.00	A drain hose from Air Compressor 1813 glycol supply was run to the sump in Module 4951. The isolation valve was closed, but the valve did not hold completely allowing a drip from the end of the hose. The end of the drain hose was placed on the sump grating directly over the sump overflow line cap. The drain hose had a drip which dropped directly on the overflow line cap. The glycol migrated around the edges of the overflow line cap and dropped directly into the overflow line instead of into the sump. As the overflow line filled, it drained to the overflow catch barrel outside the module. This filled the overflow catch barrel and then the glycol dripped to the ground.	A bobcat was used to recover the contaminated snow. A super sucker was used to recover the contaminated gravel.	Contaminated gravel was taken to Pad 3 West pit for disposal.	
1/20/04	2004-IR-749872	Well Pad J, J - Pad, East Pad, South End, GC2/SAT	Hydraulic Fluid	10.00	Blower/Loader # 52-242 / 53-009 experienced a hydraulic hose failure and spilled 10 gallons onto J-Pad South End. SRT notified.	A loader was used to remove contaminated snow from pad.	The contaminated snow was taken to T-pad storage facility.	
5/16/05	2005-IR-1370377	Well Pad E, GC1	Hydraulic Fluid	10.00	Hydraulic oil leaked down the Beavalator wall and onto Echo Pad surface. The Beavalator, an exterior, cable-suspended equipment elevator is operated with an overhead, hydraulically activated tugger winch drum. A seal inside the winch case failed when the hydraulic system hoses were connected to the winch manifold then subsequently energized. The pressurized fluid sprayed onto the inside of the Beavalator wall, then escaped to the exterior wal and ran down onto the snow covered E-Pad surface. The size of the area was measured as 8' x 3'. This snow was scooped with shovels and placed inside Oily Waste Bags, which were retrieved by the Spill Response Team and taken to their Snow Melt facilities for ultimate disposal at the Pad 3 injection site.	Shovels were used to remove contaminated snow.	The contaminated snow was taken to T-pad storage facility.	
4/23/02	2002-IR-208807	Drill Site 01, DS 1	Hydraulic Fluid	10.00	On snow blower 53-003 a pressure fitting failed and blew off, releasing 10 gallons of hydraulic fluid to a 5-foot x 3-foot area of the drillsite. The snow blower was taken to the shop for repaired. Other pressure fittings were checked. Security SRT and Peak project manager were notified	loader, and Dump Box were used to remove contaminated material.	Contaminated material was brought to Pad 3 for disposal.	
5/9/03	2003-IR-506355	Drill Site 15, DS15	Hydraulic Fluid	10.00	A fitting failed on Loader # 52-241 while performing work on DS15 which allowed the hose to pull free and spill approx 10 gallons of Hydraulic fluid to the ice and snow covered pad.	Recovered material with loader and placed into dump box for disposal at T-pad.	20 cubic yards of material taken to T-pad for disposal.	
3/20/02	2002-IR-187694	GC-2, GC2 Skid 452	Produced Water	10.00	The skid 452 sump overflowed in the module and leaked onto the pad under the module. This occured due to the sump high level alarm not functioning properly and the valving to the sump not being correctly lined up.	Contaminated snow was removed with Bobcat bucket, trimmer and hand tools. Material was loaded into dump truck and hauled to Pad 3 for disposal.	Contaminated material was taken to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/4/03	2003-IR-559012	Well Pad W, W-09 cellar	Crude Oil	10.00	While performing an MIT, the well established a leak between the outer annulus and the conductor, pushing fluids into the cellar. The job was shut down and the annulus depressured. Environmental was notified.	Fluids and gravel to be removed with super sucker.	Materials to be disposed of at G&I disposal facility.	
6/25/06	2006-IR-1881061	Drill Site 15, Drill Site 15 well 35, FS3	Crude Oil	10.00	15-35 Small amounts of gas and crude were found leaking due to a packing leak on a 1" globe valve.	A bobcat and dump box were used to recover the contaminated gravel.	Contaminated gravel was taken to G&I for disposal.	
9/30/04	2004-IR-1071838	Well Pad Q, Q Pad, Well #2, GC2/SAT	Hydraulic Fluid	10.00	Crane #46-457, 60 Ton. Was at Q pad well #2 lifting a valve assembly when a transmission hose ruptured causing a spill of approx. 9 gallons hydraulic oil onto snow covered gravel pad. SRT notified, spill cleaned up.	A loader and shovels were used to remove the material from the gravel pad.	The material was taken to Pad 3 disposal facility	
1/2/04	2004-IR-732780	Drill Site 17, Drill Site #17 on pipeline road, FS2/COTU	Propylene Glycol	10.00	Plastic fan blade on snow blower 53-012 broke and pieces punctured the radiator at DS#17. SRT notified. Glycol and snow picked up and bagged.	Hand tools were used to remove contaminated material.	Maerial will be brought to T Pad for disposal.	
4/27/02	2002-IR-211323	U-11 (EOA Building), U-11 Warehouse	Hydraulic Fluid	10.00	While loading a Dempster inside U-11 warehouse, the main hydraulic hose for the lifting ram on the Dempster truck failed, causing a 10gallon hydraulic oil spill inside the warehouse.	Bobcat, adn Dump Box were used to remove contaminated material.	Material was brought to T Pad for disposal.	
6/23/07	2007-IR-2311892	Drill Site L1, L1-09 on tree, GPMA	Seawater	10.00	While cementers were pumping 7.5 BPM down IA line. Coil Tubing was pumping down the tubing on a Dual well kill operation. A JIC fitting on IA line for the pressure transducer failed @ 135 bbls away and released high pressure fluid to the back of the Coil unit and surrounding area. The crews responded by asking permission to isolate IA casing valve and it was felt it could be done safely. Operation was shut down and appropriate notifications were made. No one was hurt.	Contaminated material was removed by Bobcat and dumpbox.	Material was brought to Pad 3 for disposal.	
8/16/02	2002-IR-290707	Lisburne Production Center, LPC Pad	TEG	10.00	Loader # 52-231 was moving material at the Lisburne Production Center. During operations the cooling fan hub broke loose causing damage to the radiator and hydraulic motor resulting in spills of glycol coolant and hydraulic oil. The loader was shut down and transported to the heavy duty fleet shop for repair. Notifications were made to SRT, Peak Project Manager, Security and Peak Safety.	Loadre and Dump box were used to remove material.	Material was brought to T pad for disposal.	
11/27/02	2002-IR-378492	Airport, Heavy Equipment Warm Storage	Hydraulic Fluid	10.00	The sand truck #38-008 developed a leak around the hydraulic filter while working at the gravel stock pile. The truck was removed from duty and taken to the EOA fleet shop for inspection and repair. The truck was repaired and returned to service. Notifications were made to SRT, Security, Project Manager and Safety.	Loader, and dump box were used to remove contaminated material.	Material was bruoght to Tpad for disposal.	
6/25/03	2003-IR-549763	Well Pad E, E-15 cellar	Crude Oil	10.00	While dewatering cellars, crude oil was discovered in the cellar of well E-15. The crude oil appeared to have come from around the conductor. The exact cause is under investigation by the Wells Integrity Engineer.	All of the free standing liquid was removed with vac truck, contaminated gravel was removed with super sucker and hand tools.	Material taken to Pad 3 for disposal.	
4/21/06	2006-IR-1804510	Lisburne Production Center, GPMA, LPC on pad under Module 4922, GPMA	Produced Water	10.00	While making outside rounds, an Operator discovered what looked like a potential produced water spill on the pad under 4922 shipping pump module. He notified the Lead Operator of this at apx 11:00am. At apx 11:05 am, the Lead Operator confirmed what appeared to be produced water and an oil sheen that had formed an ice layer on the pad under Module 4922 near an access stairway leading into the shipping pumps. Investigation of the leak source revealed what appeared to be water dripping from a pipe in several icicles and an active dripper hitting the pad. The line that was leaking is an insulated/heat-traced line that comes from the Slop Pump and Dirty Water Pump to the truck loading dock, ending in a truck loading hose connection. (It appears that corrosion has perforated the pipe. The extent isn't known yet) The Lead Operator blocked in the source of the line to reduce leakage and contained the drippage in a containment dike. He then notified the Oil Operator of the leak in his area. The line was walked from end to end to insure no more leaks were detected. At apx 11:30am, the GPMA AMS and AM were notified of this leak scenario. The Spill Notification number 5700 was called and the spill reported. The SRT Lead was already onsite and he estimated the spill to be apx 5-10 gal of produced water with oil sheen. From apx. 11:40am to apx 3:00pm materials were rounded up to install drain hoses at the loading dock to a blowdown trailer and a N2 hose was setup to blowdown the line to the blowdown trailer. The Oil Operator greased and backseated the leaking line source valves, securing and isolating the line and the line was blown down to remove the liquids from the line.	Hand tols, Bobcat, and dump box were used to remove contaminated material.	Material went to G&I for disposal.	
9/14/01	2001-IR-117069	Well Pad L, North side of L-Pad	Sewage	10.00	Workers noticed water leaking from an envirovac unit on L-pad. The sanitary sewer holding tank was leaking. The source of the leak was not visible, due to the fact that the holding tank is located on the underside and enclosed with partical board.	The contaminated gravel has been cleaned up with a loader and placed into a dumptruck for disposal transportation.	Material has been taken to Pad-3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/2/06	2006-IR-1999036	Well Pad K, Pad next to the Driller side and end of the drilling rig., GC1	Crude Oil	10.00	Drilling crew blewdown the lines from the Kill Line through the Choke, through the Gas Buster, and on to the Mud Pits, but had not drained the Gas Buster. During the process, crude oil on the surface of the fluid inside the Gas Buster was forced up the Gas Buster vent stack and was blown out onto the drilling rig outer walls and down onto the pad behind the rig. An area behind the rig 20' by 60' long was covered by the spray from the stack due to a light, westerly wind. The crew immediately soaked up the crude oil on the surface of the gravel with absorb, and under the direction of the WOA Spill Tech, scraped up and bagged the surface gravel affected. They recovered 4-bags of oil-soaked absorb and 75-gallons of gravel.	Sorbents were used to remove standing liquids and hand tools were used to remove contaminated gravel.	The gravel was taken to Pad 3.	
2/5/06	2006-IR-1714089	PM-2, Term Well A Lake, GPMA	Hydraulic Fluid	10.00	While working on the Point Mac 2 bridge bypass road, for drilling rig access, the contractor building the ice road was chipping ice with a third party trimmer. The operator placed the unit in a rest position and one of the hydraulic hoses that power the trimmer head became entangled in the drum and was torn lose from the power unit and caused the loss of approximately 10 gallons of hydraulic fluid to the surface of the frozen lake. The operator immediately stopped and notified his Supervisor, the spill line (5700) was alerted, all notification were done and the spill was immediately cleaned up and the material was placed in the T-pad storage area, the trimmer was returned to shop for repairs.	The contaminated ice and snow was removed using a hand tools, a Grader and a Loader. The contaminated material was then placed into a dump truck for disposal transportation.	T-Pad Storage Pit.	
12/3/01	2001-IR-140930	MCC Fuel Dock, MCC FUEL ISLAND	Diesel	10.00	Nozzle on fuel hose stuck open.	Recovered with hand tools and placed into drums for recycle.	recycled material.	
3/24/04	2004-IR-845260	VMS Building, Pad area near VMS shop, Non Process Area	Hydraulic Fluid	10.00	Crane #46-458 had been brought over to the VMS Shop for M service and to have a seal replaced. Upon starting the crane a hydraulic hose failed and leaked approximately 1.5 gallons of hydraulic oil onto the pad. Spill was cleanup up, SRT notified.	All of the contaminated snow was removed from the snow covered gravel pad with a loader. The contaminated snow was placed in a dump truck for transportation to disposal location.	T-Pad Storage Pit	
6/5/98	1998-IR-90003	Drill Site 05	Seawater	10.00	Peak vac truck driver was delivering brine to rig tiger tank. Driver prepared to pump by filling out appropriate fluid transfer permit. He performed walk around of truck to check for leaks. When he bled off the vacuum and pressurized the tank, the hatch seal failed and approx. 10 gallons of brine spilled onto the pad. A swimming pool was put under the area, the pump was shut down and pressure bled off. The rig crew cleaned up the spill. Upon further investigation, it was found that the manhole was warped, source unknown. Lessons learned: Having more than one person present during a fluid transfer is critical to observe the operation. Quick response minimized this spill. (Description modified on 7/11/98 to indicate further investigation found that it was the manhole opening, not the hatch door that was warped/misaligned. jka)			
3/1/97	1997-IR-89186	Well Pad J	Crude Oil	10.00	While bleeding down high level in the J-pad test separator after a high level shut down the slop oil vessel was over filled spilling 10 gallons of crude oil onto the ground outside of skid 54. The test seporator is located in skid 59 and the slop oil vessel is in skid 54. This was not the normal pad operator as he was busy on R-pad and the HPY pad operator was helping him out. However several other options are availible to bleed this system down and no vessel watch was used.		Contaminated snow and ice was taken to Pad 3 (ARCO) for disposal. Contaminated sorbent was placed in a NSB Oily Waste dumpster.	When bleeding down the J-pad test separator to the slop oil vessel, the slop oil vessel overfilled spilling 10 gallons of crude oil onto the ground outside of Skid 54. The test separator is located in skid 59 and the slop oil vessel is in skid 54. A rep
7/6/97	1997-IR-89424	Well Pad H	Corrosion Inhibitor	10.00	Approximately 10 gallons of EC1260A corrosion inhibitor was spilled onto the gravel under skid 56 at H pad during tank filling operations. The chemical reached the pad through an over-flow vent. The crew, consisting of a chemical operator and a chemical tanker driver were in the process of filling a chemical storage tank inside the skid. The chemical operator was stationed inside the module to monitor the tank volume while the tanker driver was outside the module to operate the transfer pump on the tanker. During the transfer, the chemical operator noticed that a second chemical storage tank was almost empty and decided to fill it as well. He called the tanker driver on the radio and told him that he wanted to fill the second tank. The tanker driver thought that the plan was to fill both tanks at the same time. While still pumping chemical to the first tank, the driver hooked a hose to the fill line for the second tank and started pumping chemical at the rate of about 60 gallons per minute. The chemical operator did not know that both tanks were being filled and monitored only one of the tanks. After several minutes, the high level alarm for the second tank was activated. Both the chemical operator and the tanker driver thought the alarm was coming from another module. The chemical operator called the pad operator and asked about the alarm. The pad operator responded that he did not have any module alarms activating. Shortly thereafter, the tanker driver noticed fluid flowing out of the overfill vent and onto the ground. He shut down his pumps and notified the chemical operator of the spill. The Environmental Department was notified and the spill was cleaned up.		The gravel was flushed with water to remove the product for reuse. The non-hazardous gravel was taken to Pad 3 for disposal.	Approximately 10 gallons of EC1260A corrosion inhibitor was spilled onto the gravel under skid 56 at H pad. A storage tank was overfilled and the chemical reached the pad after exiting an over-flow vent. The cause of the incident was miscommunication be

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/4/98	1998-IR-90001	Price Pad	Diesel	10.00	While performing equipment inspections on Price Pad, an employee discovered a diesel spill from a small, portable generator trailer. The diesel leaked from a belly-style fuel tank. The tank was hydrotested and it was determined that there were no leaks. The spill occurred due to thermal expansion.		Contaminated gravel has been tested for non-hazardous status-pending results it will be taken to Pad 3.	While performing equipment inspections on Price Pad, an employee discovered a diesel spill from a small, portable generator trailer. The spill appears to be due to a very slow leak that occurred over several months. The diesel leaked from a belly-style
1/21/96	1996-IR-91029	Spine Road	Drilling Mud	10.00	Drilling mud was discovered, spilled on the Spine Road for approximately 1/4 mile by BP Environmental. The spill started at the corner west of the Lake Africa access road in the west bound lane. The mud apparently leaked from a truck hauling to the CC-2A injection facility. A grader and loader were used to scrape up the contaminted snow and ice and it was taken to the CC-2A ball mill for processing.There was no environmental impact. An investigation team consisting of Mike Dinger CC-2A Supervisor, Joe Serra BP Environmental, and Adam Kragness Veco, was formed to review the incident. They were unable to determine the specific vehicle that was involved in the spill, but evidence indicates that the truck involved was probably a guzzler. The mud most likely spilled through the hose that is stored on the side of the truck during transportation. The suggestion is that the hose may have bounced out of the trough it is normally secured in.		The class II contaminated snow & ice was taken to the CC-2A Ball Mill and injected.	Drilling mud was discovered, spilled on the Spine Road for approx. 1/4 mile. The spill started at the corner, west of the Lake Africa access road in the west bound lane. The mud apparently leaked from a truck hauling mud to the CC-2A injection facility
3/16/98	1998-IR-90701	Spine Road	Diesel	10.00	A Veco Construction tractor and flat bed trailer was driving towards Deadhorse. The driver slowed down when he saw vehicles (a bus with a pickup behind) stopped ahead turning left into the Annex I access road. As he continued to slow and approach the stopped vehicles, he applied his brakes but they were non-responsive. He made the decision to drive his vehicle off the road rather than hit the vehicles stopped in front of him. His tractor trailer sank into the drifted snow on the south side of the Spine Road. The left rear trailer axles remained on the road's shoulder, causing the trailer to severely tilt away from the road. The trailer was carrying a track mounted trenching machine. Shortly after the truck came to a stop, the binder chains broke and the load slid off the trailer onto its' side. A fitting on one of the trencher?s diesel fuel tanks was damaged and slow leak started. Ten gallons was estimated to have leaked out of the tank with nine captured in a bucket. The other gallon was contained in the snow beneath the tank and was collected by ACS personnel. An investigation was commenced March 17th.		Sorbents were placed in oily waste dumpsters. Recovered diesel was reused.	Veco Construction tractor and flat bed trailer accident near Annex 1. A fitting on one of the ditch witch's diesel fuel tanks (on trailer) was damaged during the accident. Ten gallons of diesel was estimated to have leaked out of the tank with nine capt
1/17/96	1996-IR-91129	BOC	Drilling Mud	10.00	The employee was thawing on the outside offloader hose, because an ice plug had formed in the hose due to a leaking 6" Butterfly valve. Employee was using steam to thaw out ice plug. Behind the ice plug was some unfrozen drilling mud. Once the plug thawed, mud burbled down the offloader hose and approx. 10 gal. of mud missed the 6'x3'x2' secondary containment trough. Employee notified supervisor and cleaned up spill. Environment Dept. notified.		The non-hazardous contaminated snow was melted and injected at CC2-A.	Due to a leaking 6" butterfly valve, an ice plug developed in the off loading hose at CC2-A. An employee was attempting to thaw the resulting ice plug with steam, and when the plug melted, released 10 gallons of unfrozen drilling mud from the hose, previ
4/6/98	1998-IR-90558	Well Pad N	Produced Water	10.00	1/2" Tubing connection from the produced water header to pressure transmitter seperated, causing a high pressure stream of water to be directed against the inside wall of Skid 54. A small portion of the water stream leaked through a seam in the wall & spilled outside of module. The amount of produced water spilt outside was approx. 10 gallons. A larger volume aprrox. 250 gallons was contained inside the skid. NOTE: Only 10 gallons outside is a recordable spill. Upon examining the fail tubing connection it was evident that the ferel & lock ring where never seated properly. This defect was most likely been in place from the time this equipment was commissioned. The pigging activity on the well pad at the time of this failure may have created a slight surge in pressure causing this failure to occur at this particular time, however, the real cause of this incident is contributed to the sub-standard swedlok tubing connection. It was notice that this connection was so poor it is amazing that this has not failed prior to this incident. Fitting has been cut out & replaced to accept its standards. Pigging Operator Statement: The process of pigging the IM2 to M, produced water, 20" line. N-Pad water injection wells 8 & 23 were shut in because said job. After pigged passed N-Pad, Shawn Murphy went in the skid to equalize around divert valves to bring the wells back on. While equalizing Shawn began to smell produced water & a feeling of increased humidity. Finished equalizing & opened diverts. While leaving the skid, noticed large spray coming from next floor below, realizing that it was produced water from tubing break. Made the effort to isolate the leak. Called Pad Operator & notified Doug Vaughn & he called SPOC. Waited at skid until Operatr arrived & identified location.		Exempt clean up material was taken to ARCO Pad 3 for disposal.	A 1/2 tubing connection from the PWI header (N-48) pulled apart where it tied into the pressure transmitter resulting in a spill. The tubing directed a stream of produced water against the side of the N-54 module. The high pressure stream leaked throug

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/8/94	1994-IR-88609	BOC	Diesel	10.00	Alaska petroleum #005 fuel truck rented to houston broke down at annex 1. when vehicle was towed to houston mech. shop, it was noticed that the vehicle had a leak from one of the discharge valves. A visual inspection of the area where the vehicle had broken down revealed diesel spill.		Disposal - contaminates taken to ARCO Pad 3 West Pit.	APC #005 fuel truck rented to Houston broke down at Annex 1. When vehicle was towed to Houston Mech. shop, it was noticed that the vehicle had a leak from one of the discharge valves. A visual inspection of area where vehicle had broken down revealed di
7/22/97	1997-IR-89473	Well Pad, Roads	Seawater	10.00	A employee was in the process of transporting 300 bbls of slick seawater from K-pad to C-pad. As he turned the corner onto C-pad access road he noticed fluid dripping out of the front dog house door which promted him to stop and inspect the vac unit. During the inspecting he found a cracked sample port fitting leaking. He promptly engaged the vac unit creating a vacuum which stopped leaked and reported the incident to his superviser. The contaminated gravel was shoveled up and will be disposed of at Pad 3.		Contaminated material will be disposed of at Pad 3.	A employee was in the process of transporting 300 bbls of slick seawater from K-pad to C-pad. As he turned the corner onto C-pad access road he noticed fluid dripping out of the front dog house door which promted him to stop and inspect the vac unit. Duri
5/6/98	1998-IR-90579	Well Pad Z	Diesel	10.00	A spill involving diesel fuel and fire extinguisher agent resulted when a Dowell blender unit caught fire while supporting frac operations at well Z-22. An estimated 10 gallons was spilled when hoses connected to the Dowell blender pod caught on fire. For further information and action items on this incident see LCIR 98-BPX-0511. NOTE: Follow-up monitoring of the site revealed a small gel spill. Environmental was notified, the area was inspected and the material was cleaned up.		Snow/gravel/burn residue were disposed of at Pad 3.	A spill of diesel fuel resulted when a Dowell blender unit caught fire while supporting frac operations at well Z-22. The cause of the incident in under investigation. This is a preliminary report only. Fire extinguishing agents were used to extinguish
3/22/98	1998-IR-90683	Well Pad C	Diesel	10.00	Personnel removing equipment from around well C-24 discovered a diesel fuel spill under a triplex pump. Various pumps and other equipment have been staged at this location for two months. Examination of the two pumps normally used to support this type of work, including the one that was last on this job, failed to identify any source of the spill. An investigation failed to determine the source of the spilled fuel.		Thawed liquid was reused for freeze protection.	Personnel removing equipment from around well C-24 discovered a diesel fuel spill under a triplex pump. Various pumps and other equipment have been staged at this location for two months. Examination of the two pumps normally used to support this type o
5/6/00	2000-IR-98353	Drill Site 17	Crude Oil	10.00	The misted area in the DS 17 Test Separator relief pit was due to either a relief valve opening or inadvertent test separator venting. 35 days of test separator pressure data shows normal pressure ranges. The relief vessel needed emptying - the higher l	SRT recovered product with hand tools and placed into dump box for disposal.		The misted area in the DS 17 Test Separator relief pit was due to either a relief valve opening or inadvertent test separator venting. 35 days of test separator pressure data shows normal pressure ranges. The relief vessel needed emptying - the higher l
3/4/95	1995-IR-87080	Well Pad K	Seawater	10.00	While flooding the filters, the discharge line on the coil tubing unit pump was not attached, thus spilling 10 gallons of 120! seawater in the containment buoy and 10 gallons of 120! seawater onto the pad. The 10 gallons that were in the containment buoy were vacuumed up with the aid of Peak's vacuum truck. The remaining 10 gallons were cleaned up by Environmental technicians and equipment later that evening.		Contaminated snow was taken to T Pad pit.	During coil tubing operations, workers were attempting to bleed a filter pod. The hose from the filter pod to the pump unit on the Nowcam Coil Tubing Unit was not hooked up, causing approx. 10 gallons of seawater to spill onto the Pad.
11/12/94	1994-IR-85873	Well Pad P	Diesel	10.00	Maintenance was filling the new MI. header at P-Pad with diesel in prepartion for hydro testing the header. The line was full of diesel and had two hundred pounds of pressure on it. The hydro crew was walking the line down, looking for any leaks. They found a four inch valve that had not been bolted up properly, spilling approximately ten gallons of diesel on the ground. Ref: Spill Report No. 94-137		The snow was melted and taken to Pad 3. The diesel was separated from the melted snow and reused for freeze protection. The sorbants were bagged and placed in an NSB oily waste dumpster for incineration.	While performing work on an MI line on well P23, a 4" flange was not tightened completely . When the line was pressured up to 200 PSI the flange sprayed approx. 10 gallons of diesel on to the Pad and surrounding flowlines.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/29/95	1995-IR-98280	Drill Site 15	Crude Oil	10.00	"While depressuring header for choke change, divert came open releasing high pressure header into vented test separator. Excess flow rate carried crude oil mist out of vent tank. Approx 2-3 gallons misted over tundra"	Approximately 7 gallons remained in the relief pit. The remaining 3 gallons dispersed as an extremely light mist over the tundra. Response personnel were deployed and cleanup inside the relief pit was initiated. All contaminated vegetation inside the		"While depressuring header for choke change, divert came open releasing high pressure header into vented test separator. Excess flow rate carried crude oil mist out of vent tank. Approx 2-3 gallons misted over tundra"
3/6/94	1994-IR-88605	Drill Site 01	Seawater	10.00	Steam was hooked up to a coil in a Tiger Tank and found to be froze up. A load of warm sea water was added to tank to thaw steam lines and when steam lines thawed, they began to leak sea water, indicating broken steam lines. 10 gallons of sea water leaked out on ground before lines could be plugged.		Contaminates were melted and taken to CC-2 Ball Mill/Injection Facility. Snow and Ice taken to Arco pad 3 injection melt pit.	Began filling tiger tank with sea water, noticed sea water coming out of steamline hookup, stopped pumping. Steamline is cracked/split inside tank which allowed sea water to enter steamline and flow out line on to pad.
7/28/97	1997-IR-89481	BOC	Seawater	10.00	A Peak 250 bbl Vacuum Tanker, containing a load of 99% returned seawater and 1% diesel, started fluid transfer operations at the Oily Waste Disposal skid. The tank was pressurized to 10 psi for off-loading purposes. The driver observed fluid leaking from the tanker's (driver side) rear entry hatch at the gasket area. He immediately closed all valves on the tanker, de-pressurized and applied vacuum to stop the leak, while the hatch was secured. Approx. 10 gal. of fluid spilled on the pad. A Peak Supersucker, on location at the time, was immediately dispatched for cleanup operations. The CC2A Night Lead person notified the CC2A Superintendent at 2145 hrs. and immediately followed WOA spill reporting procedures for non-emergency spills. While cleanup operations were implemented, the Vacuum Tanker's fluid transfer operations resumed. The exempt cleanup fluids were processed and injected at the CC2A Ball Mill. After an investigation, the Vacuum tanker was released to return to Peak base for further investigation and repairs. The incident was investigated by the Drilling HSE Coordinator, Peak representative and the CC2A Superintendent. It was determined that the rear side entry hatch gasket had recently been replaced on 7-28-97, after an unloading operation at CC2A Liquid Injection Skid. A Peak mechanic replaced the gasket on-site @ CC2A, then released the equipment to resume duties. A spill liner was being utilized at the tanker's rear hose connection, prior to the spill, and a "Fluid Transfer Guideline" permit was properly filled out, as well. No environmental damage to water or tundra occurred. OIAS Elements 8, 9		The class II material was disposed of at the ball mill.	A Peak vac truck unloading at CC2A Oily Waste Skid lost 10 gallons of seawater and 0.1 gallon of diesel when it blew a gasket while pressuring up. The side inspection hatch failed when the pressure reached 10 PSI.
6/20/94	1994-IR-86216	GC-2 PWX Section	Crude Oil	10.00	When transferring fluid from under tank #7003 to the dirty water tank, the operator of the pump failed to complete the hose connections at the dirty water tank allowing 10 gals of crude to be pumped into the pad.		The sorbents were placed in the oily waste dumpster. The contaminated gravel was taken to Arco Pad 3.	When transferring fluid from under tank # 7003 to the dirty water tank, the operator of the pump failed to complete the hose connections at the dirty water tank allowing 10 gals of crude to be pumped into the pad.
10/4/95	1995-IR-91563	Well Pad X	Crude Oil	10.00	During a routine Pad inspection, by an Enviro Tech, a spot was discovered under the lateral line on X-16. As the spot was cleaned up, additional contamination was discovered. The cause of the release is unknown. The affected gravel was cleaned up and taken to Arco Pad 3 for disposal.		The exempt clean up material was taken to Arco Pad 3 for disposal.	During a routine Pad inspection, by an Enviro Tech, a spot was discovered under the lateral line on X-16. As the spot was cleaned up, additional contamination was discovered. The cause of the release is unknown.
10/20/98	1998-IR-90215	Point MacIntyre	Drilling Mud	10.00	After spotting pill in open hole and pull into casing, drill crew was circulating bottom up, mixing slug and filling trip tank before continueing to POOH. Shaker hand was filling trip tank while watching shaker. Trip tank filled and overflowed while shaker hand was working with shakers. 30 bbls of mud spilled into containment, 10 gallons outside containment. Mud was recycled into mud pits.	Mud quickly froze, was picked up and deposited back into the cellar.	The mud was recycled into mud pits.	Shaker hand was filling the trip tank while also watching the shakers. The trip tank overflowed while hand was monitoring shakers. The high level alarm was not engaged. All but 10 gallons of mud was contained.
6/22/92	1992-IR-88201	Well Pad W	Crude Oil	10.00	SPILL OCCURRED WHEN W-PAD PIGGING RECEIVER WAS VENTED TO VENT HEADER. THE VENT HEADER CONTAINED RESIDUAL CRUDE OIL, WHICH WAS FORCED FROM VENT. APPROXIMATELY 10 GALLONS OF CRUDE VENTED & CAME IN CONTACT WITH THE GROUND.		Contaminated sorbents taken to NSB dumpster designated for oil-soaked sorbents. The contaminated snow, ice & gravel was taken to Arco pad 3 for disposal.	Spill occurred when W-pad receiver was vented to vent header. The vent header contained residual crude oil which was forced from the vent. Vent does not have liquid drain. THIS IS A FINAL REPORT ONLY!!

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/5/95	1995-IR-87130	Well Pad Z	Seawater	10.00	Vac truck driver left 1/2" air bleeder valve open. During fluid transfer operations, seawater exited through open valve onto pad. Operations were stopped and proper authorities were notified. Seawater ice was chipped up and recycled into vac truck and pad was iced down with fresh water.		The material was melted and reused for its intended purpose.	Sea Water was being transferred from Peak Vac truck #K82 /T-163 to vac truck #K-64/T-161. A bleed valve was left open on truck #K-64/T-161 causing approx. 10 gallons of Sea Water to spill onto the pad.
10/6/93	1993-IR-86702	Well Pad A	Methanol	10.00	The coil tubing unit was left hooked up to Well A-23 for the night. During the night, methanol bled back from the well through 3 closed valves that were faulty. The unit was Nowcam truck # 4905. Sorbents were placed on the contaminated gravel. The contaminated gravel was delivered to Arco Pad 3 and the sorbents were deposited in the appropriate dumpster. Valves were replaced. In the future, the tubing will be disconnected and capped if the unit is to remain on site over night.		The contaminated gravel was delivered to Arco pad 3 (2 yards) and sorbents were deposited in the appropriate dumpster.	Coil tubing unit was left hooked to the well for the night. During the night, methanol bled back from the well through 3 closed valves that were faulty. The unit was a NOWCAM truck, number 4905.
5/4/97	1997-IR-89256	Well Pad S	Corrosion Inhibitor	10.00	Approximately 10 gallons of Nalco EC1260A corrosion inhibitor spilled onto the snow-covered gravel at S pad when the pre-meter filter housing of a chemical transfer pump on BPX tanker 42-025 cracked. The two-person chemical crew had just started transfering chemical when the spill occurred. Containment trays were in place but failed to contain the entire volume.		The spilled product was reclaimed from the gravel and used for corrosion inhibition. The non-hazardous gravel was sent to Pad 3 for disposal.	Truck #42-025 was pumping corrosion inhibitor into skid 57 on S Pad. A filter housing on the transfer pump cracked causing approximately 10 gallons of corrosion inhibitor to spill onto the pad.
5/1/98	1998-IR-98739	Pad 10	Methanol	10.00	"Employee disconnected suction hose from methanol loading dock. As employee began to disconnect Vac Truck from dock, he bumped the control valve causing the line to discharge methanol."	Used loader with autocar to scrape up contaminated gravel. - Contaminated gravel taken to L-Pad to be washed.		"Employee disconnected suction hose from methanol loading dock. As employee began to disconnect Vac Truck from dock, he bumped the control valve causing the line to discharge methanol."
11/3/96	1996-IR-89735	Price Pad	Methanol	10.00	A loader clearing snow from the equipment staging area at Price Pad, discovered a patch of snow contaminated with what appeared to be methanol. Investigation revealed methanol tank trailer number 68-623, which was parked adjacient to the spill, had a crack in a weld and another in the containment tray. BPX Environmental was notified and the spill area was cleaned up. Fluids remaining on the trailer were removed and the trailer will be taken to PEAK for inspection and repair. Contaminated snow and gravel will be collected for disposal.			Methanol tank #68-623 located at Price Pad was discovered to have a cracked weld. The secondary containment was also cracked allowing the methanol to spill onto the pad.
3/10/97	1997-IR-89193	Santa Fe Pad	Diesel	10.00	CCI vehicle #301 underwent repair work at the Veco shop (Deadhorse) on 3/10/97. On the morning of 3/12, a CCI employee noticed a strong diesel odor coming from the vehicle upon arriving at Santa Fe Pad for regular job duty. THe employee opened the hood and noticed diesel spraying on engine block. He promply pulled vehicle into shop, turned it off, and placed a liner under the vehicle to minimize spill impact. ACS was then notifed of situation as was Veco (Deadhorse). The vehicle was found to have a loose fuel filter which had been replaced on 3/10 while doing repair work. Some spilled fuel was found at Annex 1 where vehicle had been parked.		Contaminated snow will be placed in hoppers on Santa Fe Pad for reuse as freeze protection.	After vehicle #301 came out of Veco warranty shop it was noticed that fuel was leaking from under truck. The fuel filter was found to be leaking fuel onto Santa Fe Pad.
5/22/92	1992-IR-87220	Well Pad S	Crude Oil	10.00	A dismantled Poorboy gasline was leaking crude oil on the ground from the ends of the pipe. There was sorbent plugging the ends. A loader was used to scrape up contaminated material which was loaded into a dump truck for removal from the site. Contaminated materials were taken to T-Pad for summer oil recovery. Production personnel were advised to be certain lines are fully drained before dismantling and advised as to proper wrapping techniques for open pipe.		Conaminated materials taken to T-Pad for summer oil recovery.	A dismantled Porboy gasline was leaking crude oil on the ground from the ends of the pipe. There was sorbent plugging the ends. Crude oil seeped throuth the sorbent.
2/2/95	1995-IR-98546	Drill Site 01	Seawater	10.00	"The """"O""""" ring seal blew out on a hardline connection during a pumping operation, causing material to release into wellhouse and onto snow-covered gravel pad."	Shovels were used to scoop up contaminated snow. - Contaminated snow was taken to Pad 3 ????		"The """"O""""" ring seal blew out on a hardline connection during a pumping operation, causing material to release into wellhouse and onto snow-covered gravel pad."
8/1/92	1992-IR-88047	GC-1 Pad	Crude Oil	10.00	During a displacement pigging operation, workers left the tank site without closing the block valve. They entered the skid and opened the pig launcher which allowed fluid to gravity feed into the tank causing it to overflow.		Attempting to haul material to Arco Pad 3. If unacceptable, because of pit levels, the material will be placed into the lined T pad storage pit.	Workers left the tank site without closing the block- in valve, opening the pig launcher, which allowed material to gravity feed into the tank causing an overflow.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/10/95	1995-IR-87358	Well Pad K	Diesel	10.00	Veco driver was attempting to drive off matting boards from Rig 9's cutting tank when a 3X12" riser board flipped on edge as front wheel drove over it. This action caused the end of board to strike driver's side fuel tank valve. This sudden force cracked the valve. Unaware the driver pulled up to the camp to sign out. When he returned to his truck he observed fluid leaking from the fuel tank. He immediately obtained a drip pan and notified tool pusher. He returned to isolate leaking fuel tank and began operations to remove fuel from tank into 55 gal drum. The Environ. Dept. was notified and responded. The Environ. Dept. supervised cleanup operations and all contaminated material was removed. Approx. 15 gals of diesel fuel was spilled. A NS spill report was filed and is forth coming.		The used sorbents were placed in the oily waste dumpster. The contaminated gravel was taken to Arco Pad 3.	As Veco Supersucker #36007 was coming off the rig matting, a board kicked up striking the left fuel tank and damaged the fuel tank valve causing the spill.
10/18/96	1996-IR-98651	G&I Facility	Diesel	10.00	"While bleeding annulas to slop oil trailer, operator left hose unattended for a short period of time and the trailer filled to capacity and overflowed."	SRT van was used to pick up contaminated snow/liquids. Bobcat with bucket was used to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 10/19/96 to be held for future remediation. Contaminated snow/liquids were taken to		"While bleeding annulas to slop oil trailer, operator left hose unattended for a short period of time and the trailer filled to capacity and overflowed."
11/13/95	1995-IR-98544	Drill Site 18	Crude Oil	10.00	"The ends on a portable separator were not capped while moving, causing residual crude to release into sump on trailer and onto snow covered gravel pad."	A loader was used to remove the contaminated snow. - The contaminated snow will be melted and taken to Flow Station 1 for recycle.		"The ends on a portable separator were not capped while moving, causing residual crude to release into sump on trailer and onto snow covered gravel pad."
9/13/93	1993-IR-89039	Well Pad W	Crude Oil	10.00	The Downhole Pump Truck Operator was mixing a Corrosion Inhibitor / Crude Oil mixture for batch treatments on W-Pad. While the Pump Truck Operator was filling the C.I. / Crude tank to treat W-30, the W- pad Operator came by and inform the Downhole crew that they weren't going to be able to do the treatment on W-30 because the well was still in test. While the Pump Truck Operator and Pad Operator were discussing this issue the tank overflowed through the vent. This incident resulted in approximately 10 gal. of fluid being spilled onto the pad.		The contaminated material was taken to Arco Pad 3.	While transferring crude oil from a tiger tank to a chemical tank, the operator did not notice the fluid level on the chemical truck, causing an overflow.
2/25/94	1994-IR-88639	GC-1 Pad	MEG	10.00	Glycol heat trace on the service air line to WSW in the 483 piperack developed a leak. A portable dike was placed under the leak. Insulation was removed and operators were in the process of isolating the heat trace header when the leak became worse, causing the MEG glycol to leak outside of the containment area.		Contaminated snow and ice was taken to ARCO Pad 3.	Glycol heat trace fitting on the line coming skid 483 started leaking due to corrosion causing Glycol to spill onto pad prior to the line being isolated.
10/6/99	1999-IR-98865	Drill Site 15	Diesel	10.00	"High winds up to 60 MPH blew over the light plant, spilling the oil and diesel off the gravel pad onto the snow and ice on top of the tundra."	"The SRT was called out to clean up the spill. There was spilled material on the snow and ice above the tundra, but some product was discovered in the standing water beneath the snow and ice on the tundra. The SRT used a vac-truck and sucked up 160 bbls	The 160 bbls of material was taken to FS 1 for recycle.	"High winds up to 60 MPH blew over the light plant, spilling the oil and diesel off the gravel pad onto the snow and ice on top of the tundra."
3/13/99	1999-IR-98836	Drill Site 03	Crude Oil	10.00	Performing a Circ-out for well and got gas back in line and blew crude from open top tank onto gravel pad. Activity during spill: Wireline	3/15/99 - Disposed 36 cu yds of gravel & snow to Pad 3.		Performing a Circ-out for well and got gas back in line and blew crude from open top tank onto gravel pad. Activity during spill: Wireline
2/13/95	1995-IR-85827	Well Pad N	Diesel	10.00	Spill cause is unknown at this time. The location of the spill is close to a heater that is on N-14. The heater is serviced by VMS fueler. The contaminated snow was scraped up with a loader and shovels and placed in a dump truck. The contaminated material has been taken to T Pad pit for testing. Disposal action will be determined by the results of the testing.		The contaminated material has been taken to T Pad pit for testing. Disposal action will be determined by the results of the testing.	Spill cause is unknown at this time. The location of the spill is close to a heater that is on N-14. The heater is serviced by VMS fueler.
10/23/98	1998-IR-90129	Well Pad E	Seawater	10.00	Seawater spill. Driller lined up the manifold to the hole fill pump and left the cementing stand pipe valve open. When the remote pump was turned on seawater was released out the hose onto the rig floor and flowed through the rig and out the pipe shed onto the pad. ACS was called out to clean up the spill. It was disposed of in the slop tank.		Material (class II) was put back into cuttings tank.	During rig activity, worker left valve open causing approx. 10 gal of seawater from downhole to run out of pipe shed on to the gravel pad.
4/29/93	1993-IR-87683	GC-3 LPS Section	Crude Oil	10.00	We were cooling and depressuring the WHRU in an attempt to replace a leaking body relief valve on a 16" SDV. In the process, the large valve was being greased by Quadco to see if we could stop the valve from leaking through. We were not able to depressure completely enough to remove the small relief valve and replace it. To try to bleed off any small amount of residual pressure on the WHRU system, the operator opened the expansion tank manual vent. It belched out a couple of barrels of water with some oil on to the ground. (Oil is from leakage of process into the WHRU water.) The incident was discovered by the insulating crew. No other damage occured.		Material taken to T-Pad pit for summer recovery.	Operator opened manual vent above WHRU expansion tank to relieve pressure for work on SD valve. Oil and water escaped out vent onto pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/18/94	1994-IR-98259	Drill Site 15	Methanol	10.00	"A leak developed between the lateral line and a globe valve, during pressurizing operations. Methanol spilled into a reserve pit."	"Loader was used to scrape up methanol, contaminated snow and ice, plus some solids from the reserve pit. - Contaminated snow and ice were taken to the Pad 3 snow melter on 10/19/94 to be prepared for injection at a future date. Solids were taken to Pad		"A leak developed between the lateral line and a globe valve, during pressurizing operations. Methanol spilled into a reserve pit."
10/11/97	1997-IR-90436	Well Pad H	Produced Water	10.00	The Dowell coiled tubing unit was removing a cement / sand plug from the well bore by using an underreamer. After drilling through the plug, the bottom hole assembly was pulled up hole approximately 1200 feet. Gel was then injected to help remove the cuttings and the coil tubing was run back down the hole. While decending, the underreamer snagged on an unknown obstruction in the well bore This caused a sudden compression of the tubing resulting in the tubing being split open at surface (just below the stipper assembly). Approximately 30 gallons of produced water, gel and gas were lost. The pipe and slip rams were closed and coiled tubing was then removed and replaced. There were no injuries caused by this incident.		The exempt material was taken to Pad 3 for storage until it can be remediated.	A coiled tubing string buckled when it hung up while running into the hole. The tube split cuasing some material to be lost.
9/18/99	1999-IR-94248	Well Pad N	Crude Oil	10.00	At well N-20, the Pad Operator discovered crude oil and gas on the walls inside the wellhouse. Well was shut-in and pressure was bled off. The Environmental Department was notified of the incident and cleaned up the fluids. No fluid escaped the wellhouse area. Diagnostic investigation in progress by the Production Engineers.		Fluids were recycled at GC2. Gravel was taken to Pad 3.	The well has been shut in, and plugged , and will remain that way until the cause is determined and repairs have been made.
8/3/97	1997-IR-89448	Well Pad, Roads	Crude Oil	10.00	Grease zerk on 3" high point valve for P Pad LDF was found to be bent and leaking. It is unknown as to the cause of how the grease zerk was bent, but it was slowly leaking for some time prior to being discovered. Absorbent was placed around the affected area and the grease zerk was replaced several weeks after the leak was discovered, during the GC-1 shutdown. Initially it appeared that the amount of oil was small and did not reach the tundra; however, further investigation during the time of repair revealed that approximately 10 gallons had spilled and did in fact reach the tundra. High-point valve located near the intersection of P Pad access and Kupurak pipeline road.		The crude contaminated gravel was sent to Pad 3 for storage and remediation at a later time. Absorbents were placed in an oily waste dumpster.	3" valve grease zerk failed causing crude to leak to road pad shoulder and a small puddle of water on the adjacent tundra.
2/19/93	1993-IR-87723	Well Pad M	Diesel	10.00	WHILE ATTEMPTING TO MANEUVER AROUND A WIRELINE UNIT THE DRIVER DROVE OFF THE EDGE OF THE PAD. VISABILITY WAS POOR DUE TO "FLAT LIGHT" CONDITIONS AND THE LACK OF PAD EDGE DELINEATORS. THE PAD HAD BEEN BLOWN CLEAN MAKING THE PAD EDGE DIFFICULT TO DISCERN. FUEL WAS SPILLED AS A RESULT OF THE VEHICLE ACCIDENT.	Snow and ice contaminated with diesel is being scraped up with loaders and placed into dump truck for removal from the site.	Material will be taken to melt tank at A3W2.	Fuel truck driving under adverse visibility conditions got too close to the edge of the pad and rolled over onto its side.
1/17/99	1999-IR-93397	Spine Road	Crude Oil	10.00	A Peak truck driver was hauling a Halliburton 400 barrel upright tank from W-Pad, SB-02, to Peak Oilfield Services Deadhorse yard to be cleaned. After the driver loaded the tank on the bed truck, he noticed a small amount of oil leaking from the vent line. The Halliburton crew placed absorbent in the vent pipe then placed an oily waste bag around the pipe and secured it in place. The Peak driver stopped at the intersection of the Spine Road and the W-Pad turn off to ensure the chains on the tank were tight. During this stop there were no signs of oil leaking from the tank. When the Peak driver arrived at the Deadhorse yard he noticed the oily waste bag on the vent pipe was full of oil and leaking on the pad. The Peak Supervisor was notified of the incident and immediately began notifying BPX Supervision. Investigation of the incident revealed that oil had been spilled on the Spine Road in a narrow strip from S-Pad to the Peak yard in Deadhorse.	Loader and supersucker were used to scrape and remove contaminated gravel from road.	Contaminated gravel was taken to Pad 3	A Spill review board was held with parties involved to find root cause and action item to modify vent line was discussed.
5/24/99	1999-IR-98798	Access Road	Diesel	10.00	Inattentiveness - Driver lost track of his position in turn and overcorrected. (Classified as a controllable spill)`	The contaminated gravel was picked up by Peak and the SRT and turned over to Peak in Deadhorse.	Material will be taken by Peak for future incineration.	Inattentiveness - Driver lost track of his position in turn and overcorrected. (Classified as a controllable spill)`
4/27/94	1994-IR-86243	Well Pad W	Diesel	10.00	Coiled tubing packoff started leaking while pumping through coil at 1.5 bpm during coiled tubing workover. 1500 psi charge pressure on packoff was more than adequate to contain well pressure of 50 psi. System was isolated from formation by a pump-out plug and full column of fluid. Coiled tubing operator shut down pumping immediately and allowed wellhead pressure to bleed off to returns tank. 10 gallons of diesel with approximately 5% crude leaked onto pad. Packoff was changed out following job. Old packoff was examined, and no unusual wear was found. No deficiencies were found in general packoff maintenance. No noticeable equipment problems found. Crew alert and aware of job and surroundings; proper procedures being followed. Crew was commended for quick response in effectively minimizing the size of the spill.		The contaminated material was taken to Arco Pad 3.	A packoff seal failed on a Nowcam coil tubing unit during a job on W-5, causing diesel to leak onto the pad.
2/4/96	1996-IR-98656	Drill Site 01	Crude Oil	10.00	Contaminated gravel was discovered on snow covered gravel pad. The cause and source of spill are unknown.	Loader with scratcher and bucket were used to remove contaminated snow/gravel. - Contaminated snow/gravel was taken to Pad 3 West Pit on 2/6/96 for future remediation.		Contaminated gravel was discovered on snow covered gravel pad. The cause and source of spill are unknown.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/23/99	1999-IR-98340	Flow Station 2	Produced Water	10.00	"Threads failed due to corrosion on a 1"" carbon steel drain plug in the bottom of the PWI recycle line."	The SRT responded to the spill. They used chipping bars and shovels to clean up the spill.		"Threads failed due to corrosion on a 1"" carbon steel drain plug in the bottom of the PWI recycle line."
9/24/95	1995-IR-98531	Flow Station 2	Produced Water	10.00	Trapped water was released from a pig launcher vent line during draining and depressurizing operations.	"Bobcat, scratcher, and bucket loader were used to pick up contaminated gravel from the larger area. Shovels were used to scrape up contaminated gravel under pipes. All contaminated gravel was loaded into end dump for removal from the site. - Contamin		Trapped water was released from a pig launcher vent line during draining and depressurizing operations.
12/31/93	1993-IR-97408	Central Compressor Plant	Lube Oil	10.00	Leak from module vent observed on ground. Probable cause from recent power failure/upset on 12/25/93.	A bobcat was used to scrape up contaminated snow & gravel. - The contaminated snow was taken to Pad 3 snowmelter pit on 1/8/94 for future injection at the WIF. The contaminated gravel on 1/8/94 was taken to the West temporary pit for future remediatio		Leak from module vent observed on ground. Probable cause from recent power failure/upset on 12/25/93.
4/15/97	1997-IR-98673	Drill Site 11	Crude Oil	10.00	Valve opened during bleed-down of test separator and caused gas and crude mist to release from vent.	Used shovels and brooms to pick up contaminated snow. - Contaminated snow was taken to DS 16 temporary pit on 4/20/97 to be held for future injection.		Valve opened during bleed-down of test separator and caused gas and crude mist to release from vent.
6/1/92	1992-IR-87213	GC-2 Pad	Crude Oil	10.00	Crude oil leaked for 8" diameter pipe that was left on pad after replacement project during winter. The contaminated snow and gravel was scraped up with shovels and bucket loader. The contaminated gravel was taken to Arco Pad 3 pit. Contaminated snow to be taken to T-Pad pit for recovery. In the future, blinds are to be placed over ends of pipe.		Contaminated gravel to be taken to Arco Pad 3 pit. Contaminated snow to be taken to T-Pad pit for recovery.	Crude oil leaked from 8" diameter pipe that was left on pad after replacement project during winter.
8/15/96	1996-IR-98635	PBOC	Diesel	10.00	"Unknown, but believed to be from past fueling practices at PBOC backup diesel generator building."	"Surface samples were collected on September 2, 1996 to delineate the spill boundaries, however, due to saturated condition of the pad, samples at depth were not collected. Further assessment and cleanup will be initiated after breakup, 1997. - To be de		"Unknown, but believed to be from past fueling practices at PBOC backup diesel generator building."
4/9/95	1995-IR-98591	Drill Site 05	Crude Oil	10.00	Vibration of triplex pump caused camlock on hose to work loose. Total crude spilled was 10 gallons	Standing crude was soaked up with absorbents. Contaminated snow was scraped up with shovels and bagged. - Bags were placed in NSB oily waste dumpsters		Vibration of triplex pump caused camlock on hose to work loose. Total crude spilled was 10 gallons
7/4/94	1994-IR-98224	Drill Site 09	Crude Oil	10.00	The cap on an O-ring failed during a wireline operation causing material to leak into well cellar.	A supersucker was used to remove the contaminated material. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 7/5/94 to be held for future remediation.		The cap on an O-ring failed during a wireline operation causing material to leak into well cellar.
4/25/94	1994-IR-98171	Flow Station 1	Seawater	10.00	Over ran the tiger tank due to poor communication between the tank watchman and the pump operator.	Metis/Cleanup		Over ran the tiger tank due to poor communication between the tank watchman and the pump operator.
5/26/98	1998-IR-90040	Well Pad C	Crude Oil	10.00	Operator found well house full of oil mist and noticed that it was coming from the master stem seal. He then notified PCC and the back-up Pad operator. PCC was called and asked to take to LP and asked if C-5 had a SSSV, response was yes. At 1:52am, operator returned to C-5 and the leak had stopped. All doors were opened to clear out well house of LEL and to check for LEL with meter. With doors open, the meter read 0 LEL. Grease crew was then called and operator went to obtain absorbent to put on floor of well house. Field OTL was notified and Grease crew seated valve and replace stem seal. The master valve was pressure tested and PCC was notified that the master valve was back in service.		RCRA-exempt sorbent material was bagged and placed in the oily waste dumpster.	A stem seal failure caused approximately 10 gallons of crude to spill inside the well house.
1/25/92	1992-IR-87243	Well Pad S	Diesel	10.00	Too much pressuring during bleed-off of annulus line caused diesel to be vented out of tank.		Contaminated material placed in S top tank.	Too much pressuring during bleed-off of annulus line caused diesel to be vented out of tank.
5/23/93	1993-IR-97931	Central Gas Facility	Lube Oil	10.00	"Unknown hydrocarbon spill found on pad, thought to be from some type of heavy equipment."	Metis/Cleanup		"Unknown hydrocarbon spill found on pad, thought to be from some type of heavy equipment."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/3/98	1998-IR-98755	Drill Site 01	Diesel	10.00	The day tank over the triplex pump unit overflowed into the sump and onto the gravel pad.	"Material was scraped with a bobcat, loaded into autocar dump box for disposal. - Contaminated gravel was taken to Pad 3 West Pit on 8/4/98 for future remediation."		The day tank over the triplex pump unit overflowed into the sump and onto the gravel pad.
6/30/95	1995-IR-98269	Drill Site 14	Diesel	10.00	O-ring failed during pressure test causing lubricator to leak diesel in wellhouse cellar.	Guzzler was used to clean up contaminated gravel inside well house cellar. -		O-ring failed during pressure test causing lubricator to leak diesel in wellhouse cellar.
8/30/98	1998-IR-98757	Drill Site 17	Diesel	10.00	Diesel from the Triplex pump sump overflowed into sump drip pan and onto gravel pad.	A bobcat and autocar with dump box was utilized to scrape up the contaminated gravel. Gravel was taken to Pad 3 West Pit. - Contaminated gravel was taken to Pad 3 West Pit on 8/30/98 for future remediation.		Diesel from the Triplex pump sump overflowed into sump drip pan and onto gravel pad.
10/19/96	1996-IR-100649	Niakuk	Methanol	10.00	Hose connection to truck was not hooked up properly which allowed fluid to leak out.	Used bobcat with bucket and scratcher to pick up contaminated gravel. -		Hose connection to truck was not hooked up properly which allowed fluid to leak out.
11/10/93	1993-IR-98066	COTU Facility	Diesel	10.00	Overflowed from air compressor tank when fill nozzle was not shut off in time.	A supersucker was used to remove the contaminated snow and gravel. Cleanup is 100% complete. - The contaminated gravel was disposed of at Pad 3 SWDP on 11/11/93 and the diesel contaminated snow was melted and recycled at DSM.		Overflowed from air compressor tank when fill nozzle was not shut off in time.
11/18/93	1993-IR-89055	Well Pad X	Crude Oil	10.00	X-Pad slop tank was being used as a bleed in "double block & bleed". The knocker valve and drain valves leaked, filling the slop tank while the operator was tied up with construction work.		All contaminants were loaded into the dump truck for transport to the ARCO pad 3 facility.	Slop tank inside Skid 54 overfilled, causing crude oil to vent onto the pad.
5/23/95	1995-IR-98497	Drill Site 04	Crude Oil	10.00	Coiled tubing pipe broke at the surface while being pulled out of the well.	Metis/Cleanup		Coiled tubing pipe broke at the surface while being pulled out of the well.
10/21/92	1992-IR-97816	Flow Station 1	MEG	10.00	Bag of used UCAR filters leaked into dumpster and leaked out of dumpster.	Metis/Cleanup		Bag of used UCAR filters leaked into dumpster and leaked out of dumpster.
12/29/91	1991-IR-97614	Drill Site 02	Diesel	10.00	Plastic wrapped around a needle valve causing it to open & leak material.	YES -		Plastic wrapped around a needle valve causing it to open & leak material.
9/22/99	1999-IR-98828	Main Construction Camp (MCC)	Diesel	10.00	Small rock penetrated gas tank of vehicle while traveling on gravel pad.	SRT loaded contaiminated gravel into Auto Car dump box. Abosorbs were used to clean up remainder of spill.		Small rock penetrated gas tank of vehicle while traveling on gravel pad.
8/29/92	1992-IR-97773	J Pad	Diesel	10.00	See spill #2092. 10 gals of the total 350 gals leaked onto the tundra.	Metis/Cleanup		See spill #2092. 10 gals of the total 350 gals leaked onto the tundra.
10/18/92	1992-IR-97811	Well Pad, Roads	Fresh Water	10.00	Resid. material in vent line on tank released while transporting tank.	Metis/Cleanup		Resid. material in vent line on tank released while transporting tank.
2/6/90	1990-IR-96330	Central Gas Facility	MEG	10.00	"While onloading from CGF waste tank, vac truck hose leaked-no vacuum"	YES -		"While onloading from CGF waste tank, vac truck hose leaked-no vacuum"
6/7/96	1996-IR-98610	Drill Site 01	Crude Oil	10.00	9 X 13 annulus leaked after bringing on well after long term shut-in.	Hand tools and super sucker to clean up well cellar. Absorbants were used to wipe down inside of well house. - Contaminated gravel was taken to Pad 3 West Pit on 6/8/96 for future remediation. Absorbants were taken to NSB oily waste dumpsters.		9 X 13 annulus leaked after bringing on well after long term shut-in.
2/28/98	1998-IR-98777	Drill Site 07	Methanol	10.00	Product leaked from a coil tubing unit onto snow covered gravel pad.	Used loader and dump box to scrape up contaminated snow to be to Pad 3 East Pit. - Contaminated snow was taken to Pad 3 East Pit for future melting and injection at Pad 3 WIF.		Product leaked from a coil tubing unit onto snow covered gravel pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/13/90	1990-IR-96982	Flow Station 3	Diesel	10.00	Sprayed out vent caused by incorrect gravity feed condition of tank.	YES -		Sprayed out vent caused by incorrect gravity feed condition of tank.
9/21/92	1992-IR-97792	Drill Site 12	Methanol	10.00	Material leaked from hose while pumping from tank to mobile tanker.	Metis/Cleanup		Material leaked from hose while pumping from tank to mobile tanker.
5/19/90	1990-IR-96986	Drill Site 05	Crude Oil	10.00	Control valve failed to open causing gas and residual fluid to vent	YES -		Control valve failed to open causing gas and residual fluid to vent
9/22/92	1992-IR-97794	Seawater Injection Plant	Seawater	10.00	Material leaked from hose while pumping from plant to mob. tanker.	Metis/Cleanup		Material leaked from hose while pumping from plant to mob. tanker.
1/6/90	1990-IR-96956	Central Gas Facility	Methanol	10.00	High level switch shutdown a valve causing hose seal to rupture.	YES -		High level switch shutdown a valve causing hose seal to rupture.
1/1/92	1992-IR-87933	GC-3 PWX Section	Diesel	10.00	The bypass valve to the diesel day tank was opened accidentally.		Material was taken to A3/W2 melt tank.	The bypass valve to the diesel day tank was opened accidentally.
10/15/93	1993-IR-100898		Methanol	10.00	"While pumping methanol into well, fitting at well head broke."	Handshovels were used to remove the contaminated snow and gravel. Absorbents were used to remove fluids. Cleanup is 100% complete. - The contaminted snow and gravel were taken to Pad 3 West Temp. Pit on 10/16/93 to be held for future remediation. Abs		"While pumping methanol into well, fitting at well head broke."
5/28/90	1990-IR-97000	COTU Facility	Diesel	10.00	Disconnected load line from tanker before closing tanker valve.	YES -		Disconnected load line from tanker before closing tanker valve.
5/4/93	1993-IR-100884	Point MacIntyre	MEG	10.00	Leak from a faulty valve during a hydrotest on a pipe system.	Metis/Cleanup		Leak from a faulty valve during a hydrotest on a pipe system.
4/2/90	1990-IR-97268	Pad 10	Methanol	10.00	Connection on tanker began to leak during loading operation.	YES -		Connection on tanker began to leak during loading operation.
1/16/93	1993-IR-97966	Airport	Diesel	10.00	Overfilled bulk tank causing overflow thru the tank vent.	Metis/Cleanup		Overfilled bulk tank causing overflow thru the tank vent.
1/30/93	1993-IR-97388	Drill Site 03	Crude Oil	10.00	High winds caused material to spray out of open top tank.	Metis/Cleanup		High winds caused material to spray out of open top tank.
10/20/92	1992-IR-97813	Drill Site 12	Methanol	10.00	Hose not connected to CTU when flooding hose from tanker.	Metis/Cleanup		Hose not connected to CTU when flooding hose from tanker.
6/3/90	1990-IR-100736		Crude Oil	10.00	Mechanical failure of pump packing while unloading tanker	YES -		Mechanical failure of pump packing while unloading tanker
6/28/93	1993-IR-100892		Diesel	10.00	Leaked from vent on fuel tank due to increased air temp.	Metis/Cleanup		Leaked from vent on fuel tank due to increased air temp.
5/1/93	1993-IR-97911	Drill Site 15	Methanol	10.00	Bleed valve left open while pumping methanol down well.	Metis/Cleanup		Bleed valve left open while pumping methanol down well.
1/10/90	1990-IR-96962	Seawater Injection Plant	Seawater	10.00	Hose on transport was not drained when disconnected.	YES -		Hose on transport was not drained when disconnected.
12/6/92	1992-IR-100826		Seawater	10.00	Frac tank connection leaked material onto the pad.	Metis/Cleanup		Frac tank connection leaked material onto the pad.
11/29/92	1992-IR-97738	J Pad	Methanol	10.00	Overfilled methanol tank due to faulty site glass.	Metis/Cleanup		Overfilled methanol tank due to faulty site glass.
4/26/94	1994-IR-98174	Drill Site 17	Diesel	10.00	Fuel tank punctured by a rock during road travel.	Metis/Cleanup		Fuel tank punctured by a rock during road travel.
7/17/93	1993-IR-98008	Flow Station 2	Produced Water	10.00	Flange leak from common line overfilled drip pan.	Metis/Cleanup		Flange leak from common line overfilled drip pan.
5/30/99	1999-IR-93946	GC-3 Pad	Produced Water	10.00	GC-3 skid-301, PSV on pigging displacment gas header lifted prematurely. PSVs are set at 700psi. gas pressure at time of event was 617 psi. One PSV lifted relieving pressure outside module blowing residual produced water in the header outside onto the pad and surrounding area. This event occured when the Pigging crew was pressuring up the displacment gas header in preparation for pigging the GC-3 to FS-3 oil line.		Exempt clean up material was taken to ARCO Pad 3.	Mist limited to surface only of gravel and snow.
6/13/93	1993-IR-97969	Central Gas Facility	Lube Oil	10.00	Demister discharged oil vapors from the vent.	Metis/Cleanup		Demister discharged oil vapors from the vent.
7/11/93	1993-IR-98004	Main Construction Camp (MCC)	Sewage	10.00	Primer line on the sewage lift station broke.	Metis/Cleanup		Primer line on the sewage lift station broke.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/23/90	1990-IR-97087	Flow Station 1	Sewage	10.00	Valve on vac truck was not completely closed.	YES -		Valve on vac truck was not completely closed.
5/28/93	1993-IR-97938	Main Construction Camp (MCC)	Diesel	10.00	Nozzle on diesel tank not secured to holder	Metis/Cleanup		Nozzle on diesel tank not secured to holder
5/6/90	1990-IR-96975	G&I Facility	MEG	10.00	Broken hose during dewatering of hydrotest.	YES -		Broken hose during dewatering of hydrotest.
8/9/98	1998-IR-98756	Flow Station 1	Seawater	10.00	Piping corroded at an existing patch area.	Vac truck was used to pump water into fast tank. - Water will be returned to original piping system.		Piping corroded at an existing patch area.
11/15/90	1990-IR-97170	Drill Site 12	Seawater	10.00	Relief pop-off valve prematurely released.	YES -		Relief pop-off valve prematurely released.
10/22/00	2000-IR-95508	Drill Site 05	Drilling Mud	10.00	A 1" steam line was used in the external mud cuttings tank to keep the cuttings thawed. The 1" line was reduced down to 3/8" fitting. As the line layed on the bottom on the tank, the high steam velocity along with the cuttings, eroded a hole in the tank resulting in a spill. The cuttings tank was not bermed, allowing approximately 10 gallons of Flo-Pro mud to flow onto the snow and gravel. EOA SRT was called to assist with clean up and disposal of the cuttings.	Hand tool's and a super sucker were used to clean up the contaminated snow and gravel.	Material was taken to Drill Site 4 Grind & Inject Facility	Tank was removed from site to be repaired.
6/23/90	1990-IR-96322	Pad 10	Methanol	10.00	Methanol leaked out of transfer pump hose	YES -		Methanol leaked out of transfer pump hose
11/8/92	1992-IR-97726	Drill Site 17	Methanol	10.00	Grease fitting on flowline valve failed.	Metis/Cleanup		Grease fitting on flowline valve failed.
7/5/91	1991-IR-97484	Flow Station 1	Crude Oil	10.00	Tanker was overfilled while on-loading.	YES -		Tanker was overfilled while on-loading.
7/29/91	1991-IR-97512	Spine Road	Diesel	10.00	Broken fuel valve on the vehicles tank.	YES -		Broken fuel valve on the vehicles tank.
11/19/91	1991-IR-97589	Drill Site 03	Diesel	10.00	Valve left opened and tank overflowed.	YES -		Valve left opened and tank overflowed.
9/18/93	1993-IR-98037	Drill Site 09	Crude Oil	10.00	Old bleed barrel left residue on pad.	Handshovels were used to remove the contaminated gravel. Cleanup is 100% complete. - The contaminated gravel was taken to AIC for incineration on 10/2/93 and will be reused.		Old bleed barrel left residue on pad.
3/31/90	1990-IR-97266	Drill Site Maintenance	Seawater	10.00	Material leaked from damaged fitting.	YES -		Material leaked from damaged fitting.
1/22/92	1992-IR-87976	Well Pad A	Crude Oil	10.00	Flange leaked oil onto gas lift line.		Contaminated material taken to A3W2 melt tank.	Flange leaked oil onto gas lift line.
9/14/92	1992-IR-100820	Point MacIntyre	MEG	10.00	Radiator hose came loose from truck.	Metis/Cleanup		Radiator hose came loose from truck.
7/23/92	1992-IR-86658	Well Pad R	Lube Oil	10.00	The source of the spill is unknown. Spill was found during routine pad inspection. A 966 loader was used to scrape up the contaminated material and it was loaded into a dump truck for transport to A3W2.		The contaminated material was taken to A3/W2 snow melter.	Found during routine pad inspection.
6/9/93	1993-IR-97965	C Pad	Diesel	10.00	Hole in the fuel tank of the truck.	Metis/Cleanup		Hole in the fuel tank of the truck.
7/13/92	1992-IR-97746	Drill Site 16	Diesel	10.00	Fuel tank on C.T.U. was overfilled.	Metis/Cleanup		Fuel tank on C.T.U. was overfilled.
2/18/93	1993-IR-98119	Flow Station 1	Diesel	10.00	Overfilled diesel fire water pump.	Metis/Cleanup		Overfilled diesel fire water pump.
4/5/91	1991-IR-97677	Pad 3	Crude Oil	10.00	Driver inadvertently opened valve.	YES -		Driver inadvertently opened valve.
10/7/95	1995-IR-98535	Drill Site 06	MEG	10.00	Coolant line on vehicle ruptured.	Metis/Cleanup		Coolant line on vehicle ruptured.
5/22/90	1990-IR-96995	MCC Fuel Dock	Diesel	10.00	Hose came loose from bulk tank.	YES -		Hose came loose from bulk tank.
7/26/91	1991-IR-97507	Well Pad, Roads	Seawater	10.00	Mixer truck's agitator leaked.	YES -		Mixer truck's agitator leaked.
4/16/93	1993-IR-97897	Drill Site 04	Seawater	10.00	CTU reel swivel joint failed.	Metis/Cleanup		CTU reel swivel joint failed.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/17/93	1993-IR-98034	Drill Site 15	Diesel	10.00	Unknown spill found on pad.	A front end loader was used to remove the contaminated gravel from pad. Clean-up is considered to be 100% complete. - Contaminated gravel was taken to Pad 3 temporary holding pit on 9/17/93 to be held for future remediation .		Unknown spill found on pad.
12/5/91	1991-IR-97600	J Pad	Methanol	10.00	Overfilled tank container.	YES -		Overfilled tank container.
12/2/92	1992-IR-97843	Seawater Injection Plant	Seawater	10.00	Valve was frozen on tank.	Metis/Cleanup		Valve was frozen on tank.
3/27/93	1993-IR-97424	Flow Station 1	Crude Oil	10.00	LEAK FROM CORRODED LINE.	Metis/Cleanup		LEAK FROM CORRODED LINE.
10/23/91	1991-IR-97562	Seawater Injection Plant	Seawater	10.00	Overfilled tank trailer.	YES -		Overfilled tank trailer.
12/3/92	1992-IR-97844	Drill Site 09	Diesel	10.00	Fuel Tank Seam Cracked.	Metis/Cleanup		Fuel Tank Seam Cracked.
2/15/90	1990-IR-96339	Flow Station 1	Crude Oil	10.00	Site glass clamp broke.	YES -		Site glass clamp broke.
1/29/91	1991-IR-97558	Central Gas Facility	MEG	10.00	Overfilled a tanker.	YES -		Overfilled a tanker.
9/4/91	1991-IR-97537	J Pad	Methanol	10.00	Overfilled trailer.	YES -		Overfilled trailer.
10/27/90	1990-IR-97154	COTU Facility	Diesel	10.00	Overflowed tanker.	YES -		Overflowed tanker.
5/27/90	1990-IR-96998	Seawater Injection Plant	Lube Oil	10.00	Sprayed from vent.	YES -		Sprayed from vent.
2/20/92	1992-IR-97827	Seawater Injection Plant	Seawater	10.00	Overfilled tanker.	YES -		Overfilled tanker.
6/16/91	1991-IR-97464	Drill Site 12	Diesel	10.00	Overfilled tank.	YES -		Overfilled tank.
12/10/90	1990-IR-97204	Seawater Injection Plant	Seawater	10.00	Leak in fitting.	YES -		Leak in fitting.
11/6/89	1989-IR-96812	Drill Site 05, Not specified	Diesel	10.00	"While fueling, leaked from generator spout due to no engine attached."	Not specified	Not specified	Not specified
9/23/89	1989-IR-96770	Drill Site 04, Not specified	Diesel	10.00	Line restriction caused pressure build up and connection separated.	Not specified	Not specified	Not specified
11/11/89	1989-IR-96819	Drill Site 14, Not specified	Crude Oil	10.00	Sprayed out tank vent caused by a gas surge while taking returns.	Not specified	Not specified	Not specified
10/19/89	1989-IR-96794	Checkpoint - Central, Not specified	Diesel	10.00	Diesel splashed out of vent when truck stopped at guard shed.	Not specified	Not specified	Not specified
7/19/89	1989-IR-96727	Flow Station 1, Not specified	Crude Oil	10.00	Material leaked from a hose that wasn't properly drained.	Not specified	Not specified	Not specified
11/7/89	1989-IR-96815	Drill Site 06, Not specified	Crude Oil	10.00	Sprayed from a compressor vent caused by high foaming.	Not specified	Not specified	Not specified
12/3/89	1989-IR-96865	Pad 10, Not specified	Methanol	10.00	Leaking flange was observed during tanker offloading.	Not specified	Not specified	Not specified
9/23/89	1989-IR-96769	Drill Site 14, Not specified	Diesel	10.00	Leaking fuel tank from Triplex pump.	Not specified	Not specified	Not specified
12/14/89	1989-IR-96878	Flow Station 2, Not specified	MEG	10.00	Heat trace line to tank vent failed.	Not specified	Not specified	Not specified
5/21/89	1989-IR-96649	PBOC, Not specified	Diesel	10.00	Cracked weld on fuel tank.	Not specified	Not specified	Not specified
12/17/89	1989-IR-96887	COTU Facility, Not specified	Diesel	10.00	Fuel nozzle stuck open.	Not specified	Not specified	Not specified
6/21/85	1985-IR-100677	Not specified	Diesel	10.00	Seeping through dik	Not specified	Not specified	Not specified
5/4/86	1986-IR-95950	COTU Facility, Not specified	Diesel	10.00	Piling suprt hole l	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/26/88	1988-IR-96446	Drill Site 03, Not specified	Diesel	10.00	Hose leak/dike leak	Not specified	Not specified	Not specified
6/8/87	1987-IR-96216	Drill Site 04, Not specified	Crude Oil	10.00	Found stained grave	Not specified	Not specified	Not specified
8/4/87	1987-IR-96229	Drill Site 04, Not specified	Diesel	10.00	Found soaked gravel	Not specified	Not specified	Not specified
6/8/87	1987-IR-96214	Drill Site 09, Not specified	Crude Oil	10.00	Found stained grave	Not specified	Not specified	Not specified
6/8/87	1987-IR-96213	Drill Site 16, Not specified	Crude Oil	10.00	Found stained grave	Not specified	Not specified	Not specified
1/10/87	1987-IR-96184	Drill Site 18, Not specified	Crude Oil	10.00	Hose vibrated loose	Not specified	Not specified	Not specified
4/25/82	1982-IR-96070	Flow Station 1, Not specified	Lube Oil	10.00	Outlet valve blocke	Not specified	Not specified	Not specified
9/19/79	1979-IR-96014	West Dock, Not specified	Diesel	10.00	Overfilled fuel tan	Not specified	Not specified	Not specified
3/14/89	1989-IR-96924	Central Compressor Plant, Not specified	Diesel	10.00	Faulty seal leaked	Not specified	Not specified	Not specified
9/26/88	1988-IR-96516	Drill Site 07, Not specified	Diesel	10.00	Coiled tubing leak	Not specified	Not specified	Not specified
8/7/87	1987-IR-96232	Hot Water Plant, Not specified	Lube Oil	10.00	Leaked from engine	Not specified	Not specified	Not specified
6/10/83	1983-IR-96116	Well Pad, Roads, Not specified	Diesel	10.00	Truck ran off road	Not specified	Not specified	Not specified
9/26/88	1988-IR-96515	COTU Facility, Not specified	Crude Oil	10.00	Hose disconnected	Not specified	Not specified	Not specified
9/7/87	1987-IR-96238	Drill Site 04, Not specified	Crude Oil	10.00	Vac truck failure	Not specified	Not specified	Not specified
11/22/88	1988-IR-96551	Drill Site 05, Not specified	Methanol	10.00	Valve bumped open	Not specified	Not specified	Not specified
11/13/87	1987-IR-96381	Drill Site 07, Not specified	Crude Oil	10.00	Coil tubing loose	Not specified	Not specified	Not specified
4/6/88	1988-IR-96280	Drill Site 18, Not specified	Crude Oil	10.00	Faulty valve leak	Not specified	Not specified	Not specified
11/4/87	1987-IR-100704	Not specified	Crude Oil	10.00	Overflowed truck	Not specified	Not specified	Not specified
10/24/79	1979-IR-96015	Airport, Not specified	Diesel	10.00	Vehicle accident	Not specified	Not specified	Not specified
4/3/88	1988-IR-96279	Drill Site 12, Not specified	Diesel	10.00	Truck overturned	Not specified	Not specified	Not specified
7/22/86	1986-IR-95963	Flowstation Common Lines, Not specified	Crude Oil	10.00	Commom line leak	Not specified	Not specified	Not specified
7/22/87	1987-IR-96207	Central Gas Facility, Not specified	Diesel	10.00	Small line leak	Not specified	Not specified	Not specified
11/13/87	1987-IR-96382	Drill Site 04, Not specified	Diesel	10.00	Installed valve	Not specified	Not specified	Not specified
7/15/88	1988-IR-96465	Drill Site 07, Not specified	Diesel	10.00	Valve left open	Not specified	Not specified	Not specified
10/7/87	1987-IR-96369	Drill Site 09, Not specified	Diesel	10.00	Valve left open	Not specified	Not specified	Not specified
4/6/89	1989-IR-96945	Drill Site 18, Not specified	Crude Oil	10.00	Tank overflowed	Not specified	Not specified	Not specified
11/12/88	1988-IR-96267	J Pad, Not specified	Methanol	10.00	Overfilled tank	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/16/88	1988-IR-96574	Well Pad, Roads, Not specified	Methanol	10.00	Valve left open	Not specified	Not specified	Not specified
3/20/89	1989-IR-96932	Flow Station 1, Not specified	Crude Oil	10.00	Vent left open	Not specified	Not specified	Not specified
6/11/88	1988-IR-96419	Drill Site 07, Not specified	Diesel	10.00	Seal blew out	Not specified	Not specified	Not specified
5/23/88	1988-IR-96355	Flow Station 1, Not specified	Crude Oil	10.00	Hose ruptured	Not specified	Not specified	Not specified
11/4/86	1986-IR-96167	C Pad, Not specified	MEG	10.00	Dropped drum	Not specified	Not specified	Not specified
2/10/89	1989-IR-96826	COTU Facility, Not specified	Diesel	10.00	Fuel spilled	Not specified	Not specified	Not specified
9/30/87	1987-IR-96364	G&I Facility, Not specified	Diesel	10.00	Valve failed	Not specified	Not specified	Not specified
2/21/83	1983-IR-96136	Central Compressor Plant, Not specified	Lube Oil	10.00	Vent leak	Not specified	Not specified	Not specified
7/12/88	1988-IR-96464	Drill Site 14, Not specified	Diesel	10.00	Unknown	Not specified	Not specified	Not specified
5/10/00	2000-IR-94956	GC-1 Oil Section	Crude Oil	10.00	Operator had just started flushing pipework for preparation of 3rd stage level valve replacement, when he noticed a fine spray coming from a hose outside skid 2. The hose was isolated and the spill was cleaned-up. Closer inspection of the hose connections revealed that the pin on the crows-foot connection had not been inserted in a way that would keep the hoses from coming appart.	Brooms, shovels, and chipping bars were used to move contaminated snow to an area where a Super Sucker could remove it.	Taken to Phillips Drill Site 4 Grind and Inject.	N/A
1/5/97	1997-IR-91673	Well Pad R	Diesel	10.00	Tioga Heater #88-556 was on R Pad between Well 5 and Well 32. The burner went out on the heater but the pump continued to pump fuel to the unit. The result was approximately ten (10) gallons of diesel leaked out of the heater and onto the pad.		The snow has been melted and the gravel was washed. The diesel was recovered for reuse for freeze protection. Analysis of the gravel indicated it was non-hazardous. The gravel will be stored at PBU-WOA T Pad for thermal remediation at a later time	
2/21/96	1996-IR-91132	Spine Road	Diesel	10.00	A Dowell Schulmberger cement batch truck (#52-5844) slid off the road and onto the tundra at the Frontier curve. Diesel fuel leaked from the fill cap, of the storage tank, in the rear trailer. Because of the angle of the truck, the diesel leaked onto the snow before secondary containment could be positioned. Due to safety concerns that the truck might roll over, we were unable to enter the truck and stop the leak prior to it being pulled back up onto the road.		The contaminated snow & ice was placed in the melt tank at A3W2, the liquid will be used for freeze protection. The non-hazardous contaminated gravel was placed into the storage bin at Santa Fe Pad and will be taken to Pad 3 for disposal.	
11/7/00	2000-IR-95554	Drill Site 03	Diesel	10.00	Approximately 10 gallons of diesel spilled from a lubricator during wireline work at well 3-36. The crew had rigged up the lubricator with an attached pump-in sub to the tree and was preparing to perform a pressure test. The initial stage of the pressure test involved filling the lubricator with diesel. When the lubricator was about one-half full, the O-ring between the lubricator and the pump-in sub failed, allowing fluid to flow out the pipe joint and down the wellhead. Some of the diesel was caught in secondary containment, but about 10 gallons ran into the well cellar. Following the spill, the job was shut down and the spill was reported. The contaminated gravel will be cleaned up by the spill technicians.	Clean up consisted of pulling up grating in well house and using Super sucker to clean well cellar area. Well house walls were wiped down with sorbents and rags and diposed of properly. Spill cleanup complete as of 11/14/00.	Contaminated gravel from well cellar taken to Pad 3. Oily waste taken to oily waste dumpster at hot water plant.	
9/23/00	2000-IR-95395	Well Pad K	Crude Oil	10.00	Operator found stem seal leaking while on normal rounds. Operator safe out was initiated and completed at time of discovery. Acting OTL was notified and went to location and inspected then notified Environmental who responded and began clean up of approximately 5 to 10 gal.	Hand tools and sorbents were used to clean up affected area.	Affected gravel will be taken to accumulation bins on Santa Fe and final disposal will be Pad 3.	
7/8/96	1996-IR-89637	Well Pad R	Crude Oil	10.00	Approx. 10 gallons of crude was released from the test separator relief line into an unlined relief pit. There is no indication that the PSV's on the test separator have relieved and there have been no blown rupture discs for the past several years. A bleed hose may have been tied into the relief line during past maintenance activity. The spill is under investigation. The cause is unknown at this time.		The exempt contaminated gravel was taken to Arco Pad 3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/27/00	2000-IR-94593	Well Pad E	Diesel	10.00	A fuel fitting on Tioga heater #88-526 failed, causing approxiamatly 10 gallons of diesel to spill onto the pad in front of well E-25. The heater was taken to VMS for repairs.	Affected snow and gravel was scraped up with a loader and trimmer.	Non hazardous material was taken to Pad 3 for disposal.	
8/2/00	2000-IR-95214	Well Pad W	Motor Oil	10.00	The W pad operator noticed a sheen of oil on the outside walls of module 509. Upon futher investigation he found dripping oil on the ground around two sides of module 509. Environmental were notified and quantified the the spill at 10 gallons. The pad operator determined the oil was seal oil leaking from the roof mounted atmospheric vent.	A super sucker was used to collect contaminated gravel. Hot water, high pressure washer was used to clean off module.	Non exempt non hazardous material was taken to Pad 3	
8/9/99	1999-IR-94145	GC-3 Pad	Diesel	10.00	A VMS fuel truck, #32-108, was staged to refuel an air compressor outside of Skid 30. During the filling operation, the truck driver noticed fuel leaking from the other side of the tank truck. He immediately stopped the fueling operation and investigated. The truck has a fuel pump hose on each side of the truck. While he was using the driver-side hose to fuel the compressor, the passenger-side hose was flowing as well.		Contaminated gravel was taken to ARCO pad 3	
8/16/00	2000-IR-95297	C Pad	Silicon Defoamer	10.00	Intermediate bulk container (tote tank) leaking valve. Evidence of valve not closed properly by shipper.	SRT	SRT	
7/22/92	1992-IR-86671	Well Pad Y	Seawater	10.00	A vac truck overfilled the seawater riger tank causing material to spill out. A loader was used to scrape up the contaminated material which was placed in a dump truck for removal to Arco Pad 3 Solids Pit. BP and Veco management met to discuss continuing spills and lack of operator attentiveness		Contaminated material was taken to Arco pad 3 solids pit.	A vac truck overfilled the seawater tiger tank, causing the material to vent outside the tank. (Same truck as Spill #92-091.)
1/10/03	2003-IR-411895	Drill Site 05, 30 FEET BEHIND THE WELLHOUSE ON WELL 5 @ DRILL SITE 5.	Crude Oil	9.00	A LEAKING FLANGE ON A FLOWLINE RELEASED APPROXAMATELY 10 GALLONS OF DEAD CRUDE ONTO THE PAD.	Material recovered with hand tools/loader and placed into dump box for disposal.	19 cubic yards of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 1-10-03.
3/29/97	1997-IR-91261	GC-2 Pad	Crude Oil	9.00	PEAK VAC TRUCK WAS MOVING PRODUCED WATER ON THE GC-2 PAD TO UNLOAD IT AT THE SKID 407 UNLOADING STATION. THE TRUCK HAD EMPTIED TWO FULL LOADS (~300BBLS EACH) THROUGH THIS STATION AND WAS UNLOADING ITS FINAL LOAD (~150 BBLS), WHEN WATER LEAKED FROM (OR VERY NEAR) THE FILL CONNECTION. THE PEAK OPERATOR WAS IN THE TRUCK DOGHOUSE COMPARTMENT AND HAD NOT NOTICED THE LEAK UNTIL HE WAS AT THE END OF HIS PUMPING OPERATION. JUST PRIOR, A WORKER ON AN UNRELATED JOB IN THE AREA NOTICED STEAM IN THE AREA, CONFIRMED THAT A LEAK HAD OCCURRED AND WAS WALKING TO THE TRUCK CAB TO NOTIFY THE DRIVER/OPERATOR WHEN THE DRIVER/OPERATOR WAS COMING OUT OF HIS TRUCK. THE TRUCK OPERATOR SHUTDOWN THE VAC TRUCK. THE WORKER WHO HAD FIRST SEEN THE SPILL CALLED SKID 7 TO NOTIFY OPEATIONS. FROM SUBSEQUENT INVESTIGATION, IT APPEARS AS THOUGH THE LEAK HAD BEEN AT THE CAMLOCK HOSE CONNECTION FROM THE TRUCK TO THE FILL POINT, ALTHOUGH THAT WAS NOT PHYSICALLY VERIFED AS THE DRIVER DISCONNECTED HIS HOSE FOLLOWING SHUTDOWN AND HIS TRUCK WAS EMPTY. THE CAMLOCK FITTING VIEWED SUBSEQUENTLY DID HAVE A GASKET IN IT, BUT IT IS NOT CLEAR WHETHER THE IT HAD BEEN WIRED SHUT DURING FLUID TRANSFER. ADDITIONALLY, IT APPEARS THAT THE LEAK PROBABLY HAD GONE UNNOTICED FOR SEVERAL MINUTES JUDGING FROM THE VOLUME RELEASED AND NO APPARENT MASSIVE SPRAY/PRESSURE FOR A QUICK RELEASE. FROM THIS ASSESSMENT, IT APPEARS AS THOUGH THE PEAK DRIVER WAS NOT ADEQUATELY FOLLOWING TWO KEY ASPECTS OF THE "FLUID TRANSFER GUIDELINES" contained within the "BP/ARCO North Slope Environmental Field Handbook",...NAMELY TO MAINTAIN CONSTANT LINE OF SITE WITH CRITICAL COMPONENTS OF THE FLUID TRANSFER AND TO NEVER LEAVE TRANSFER OPERATIONS UNATTENDED. HAD EITHER OF THESE TWO BEEN ADHERED TO BETTER, THE LEAK MAY NOT HAVE BEEN ALLOWED TO BECOME A SPILL.		The material has been delivered to Pad 3 to be melted and injected.	Incident occurred while transferring fluid during sand jet operation at the Dirty Water Station. During the third off-load operation, a connection came loose or iced up at block valve. Fluid sprayed and spilled onto the gravel pad at Skid 407.
9/4/95	1995-IR-98527	COTU Facility	Diesel	9.00	"The nozzle used to off-load fuel was inadvertantly left open on a tanker. When the tanker was re-filled, diesel ran out of the off-loading nozzle and onto the gravel pad."	Hand shovels and a bucket loader were used to remove the contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 9/10/95 for future remediation.		"The nozzle used to off-load fuel was inadvertantly left open on a tanker. When the tanker was re-filled, diesel ran out of the off-loading nozzle and onto the gravel pad."
5/6/98	1998-IR-98741	Drill Site 18	Diesel	9.00	ISO valve left slightly open on priming diesel line to pump suction on Triplex pump and possible leaking check valve on line to sump pump.	Material scraped up with a loader. - Contaminated snow and gravel were sent to Pad 3 West Pit on 5/6/98 for future remediation.		ISO valve left slightly open on priming diesel line to pump suction on Triplex pump and possible leaking check valve on line to sump pump.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/22/92	1992-IR-87858	GC-1 Pad	Crude Oil	9.00	An oil spill occurred outside of the 451 module from oil being blown out the atmospheric vent on the maintenance vent header. This was due to the manual block valve being partially open and liquid accumulating in a low spot in the piping. When the k7000 fuel gas k.o. was depressured during testing through the maintenance vent header it pressured up the header and blew oil out the vent line.		Materials placed into the T-Pad lined pit for summer oil recovery.	Liquid accumulation in a vent pipe due to a valve being partially open.
7/18/92	1992-IR-97749	Pad 10	Fresh Water	9.00	Mixture foamed out of the tanker vent.	Metis/Cleanup		Mixture foamed out of the tanker vent.
6/18/94	1994-IR-98217	PBOC	Diesel	9.00	Fuel line separated on a vehicle.	Contaminated material was scraped up with loader and bucket. - Contaminated gravel was taken to Pad 3 West Pit on 6/18/94 for future remediation.		Fuel line separated on a vehicle.
10/1/90	1990-IR-97122	Seawater Injection Plant	Seawater	9.00	Overflow valve did not shut off.	YES -		Overflow valve did not shut off.
6/16/94	1994-IR-98216	Drill Site 15	Crude Oil	9.00	Spill of unknown origin .	Handshovels used to scrape and remove contaminated gravel. - Contaminated material taken to Pad 3 West Pit on 6/21/94 for future remediation.		Spill of unknown origin .
1/25/92	1992-IR-87242	GC-1 Pad	MEG	9.00			Contaminated snow taken to T-Pad disposal pit.	
8/30/06	2006-IR-1959898	Well Pad Z, GPB Z Pad, east impoundment area, plant coordinates N 1340, E 1826, GC2/SAT	Hydraulic Fluid	8.50	As the driver of a tandem gravel haul truck was preparing to dump his load of gravel in the GPB Z Pad expansion area, the hydraulic hose for the rear trailer failed as he began raising the rear bed resulting in an approximate 8.5 gallon hydraulic oil spill on the gravel pad.	A bobcat and hand tools were used to remove contaminated gravel. Sorbents were laid to soak up standing liquids at time of incident.	The gravel was taken to Pad 3 and the sorbents were taken to an NSB oily waste dumpster.	
3/6/07	2007-IR-2181222	Central Gas Facility, CGF CONTROLL ROOM MOD. SEWAGE CONNECTION ON THE OUTSIDE OF MOD., CGF/CCP	Sewage	8.00	OPERATOR DISCOVERED LIQUID LEAKING FROM THE BUILDING SEWAGE TRUCK OFFLOADING CONNECTION. THE CAP WAS MISSING AND THE VALVE WAS NOT COMPLETELY CLOSED.	A bobcat and dump box was used to recover and transport the contaminated ice and snow.	Contaminated snow and ice was taken to T-pad for storage and future class 1 disposal.	Verbal notification was made on 3/6/07 12:15 pm. The affected area will be covered with lime in the spring.
6/3/06	2006-IR-1862961	Drill Site 06, DS6 well 15 cellar, FS3	Crude Oil	8.00	W/L was doing an N2 lift on the well, they noticed bubbling in cellar, which was mostly water with a trace of crude. They notified the DSO & DHD.	Contaminated gravel was removed from the well cellar with a super sucker. A vac truck is being used to recover oil and water in the cellar. Site assessment work completed and contaminated gravel was removed from indicated area.	Contaminated Gravel sent to G&I for disposal. Recovered fluids sent to Pad-3 for disposal.	To date we have removed 18 BBLs of fluids from this well cellar.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/12/01	2001-IR-100513	Drill Site 15	Seawater	8.00	Coil Tubing Unit #1 was performing a milling operation, at Drill Site #15, on well #41, when an estimated 5 gallons of 2% KCL solution was released onto the pad. The CTU crew had been circulating 60/40 methanol from the coil. The pumping had been shutdown for approximately 2 minutes to open the circulation sub (prototype equipment test). Little Red Services was heating 2% KCL solution and pumping the warm fluid through the low pressure skid to the CTU pumps at approximately 70 to 90 psig.Pumping resumed at at rate of 1 barrel per minute and the crew had pumped about 4 barrels when the "Spill Champion" ordered the operation to be immediately shutdown because fluids were being released from the vent of the low pressure squeeze skid. An inspection of the skid indicated that a PSV had released on the outlet line of the filter pots and the side of filter pot "B". The PSV's discharge into an accumulator (approximately 20 gallons)and then exit the low pressure skid via a 6 inch horizontal line on the upper side of the skid. The 6 inch line is labeled as a "Vent" rather than "Drain". Vent normally would indicate a release of gas or vapor. Therefore, no secondary spill containment had been placed under the pipe. When the PSV released the fluid was discharged to the accumulator and out the vent line onto the snow covered pad. The crew immediately shutdown the pumping operation, placed a spill containment dike under the 6 inch "Vent" line and were utilizing buckets and garbage cans to prevent additional fluids from reaching the pad. The CTU Supervisor pulled the plug on a bleed port of the accumulator and released the remainder of fluids (about 4 gallons) into the low pressure squeeze skid which has permanent containment built into the unit. The crew then contacted the Spill Hotline (x5700), the Well Operations Supervisor and the Well Operations HSE Advisor to report the incident. The PSV's are set to release at 120 psi. and were tagged as last being inspected in August of 1999. All of the PSV's in the low pressure skid have been tagged and set up on a 3 year P.M. program. The PSV that released was removed and taken to the Valve Pop Shop for testing and determined to have failed in the open position due to corrosion. There were no injuries as a result of this incident and none of the fluid was ever a threat to the tundra. Due to the periodic walk around inspecitons and immediate response of the crews helped to lessen the impact to the environment.	Recovered with hand tools and placed into bags for disposal at pad 3	1 cu. yrds of snow/ice taken to pad 3	Omitted material and total quantity on previous final report
2/11/07	2007-IR-2153157	Pad 3, Pad 3, Non Process Area	Hydraulic Fluid	8.00	On the morning of 11 February 2007, at approximately 1:45 am, an ASRC employee was using BP Dozer 56-306 for snow removal operations at Pad 3. When the employee reached the top of the snow pile with snow, the employee turned their head around to back down the pile. When the employee turned back forward, they noticed hydraulic oil on the front of the dozer. Investigation revealed that a lift cylinder hydraulic oil hose was only hand tightened when the dozer left the Fleet Shop (This was the first use for the dozer after a new blade and ripper was installed). The loosened hose led to a blown o-ring. The material was cleaned and bagged, and given to SRT. The amount released to the ground is estimated to be 8 gallons.	A Bobcat and hand tools were used to recover the contaminated snow.	Contaminated snow was taken to T-pad for storage and future class 1 disposal.	Verbal notification was made at 11:21am 2/11/07.
3/29/06	2006-IR-1776229	Well Pad G, G-pad, GC1	Hydraulic Fluid	8.00	Loader 52-106 was parked between shift changes on G-pad. The field fueler arrived at approximately 08:00 to fuel the equipment for the excavation crew and noticed a pool of hydraulic oil underneath the front of the loader. He moved the drip liner that was under the engine compartment to try and contain as much as possible and promptly reported the spill to his supervisor. His supervisor immediately notified the Safety department and SRT @ 5700 to report the spill. The excavation mechanic was dispatched to the location and upon inspection, found a failed ¿O-ring¿ on a hydraulic pump had caused the spill. SRT responded and estimated the volume at 8 gallons.	A loader and hand tools were used to clean affected snow. Sorbent material was laid on oil to keep from spreading on pad.	The sorbents were taken to a NSB approved oily waste dumpster. The contaminated snow was taken to the T-pad storage facility.	The initial report was submitted on 03-29-06.
2/19/02	2002-IR-169822	Flow Station 1, Flow Station 1	Drilling Mud	8.00	While making routine checks of outside area (22:00), the Operator found a spill inside / outside Slop Oil Tank module 4921. Apparently, a O Ring on the off loading line strainer inside the module was not fully seated. While the last truck was off loading, this allowed the fluid to spill out of the strainer onto the floor. Diesel /Crude / Water spilled inside the module and some also spilled to the containment pit outside through cracks in the module floor. The spill was reported to 5700 promptly and cleanup inside the module was completed by Operations.	Recovered materials with Vac Truck and hand tools.	4 cubic yards and 365 barrels of material taken to Pad 3 for disposal.	Initial report submitted on 2/19/02.
7/10/02	2002-IR-262685	Drill Site 04, DS 4 # 6	Diesel	8.00	On 7/10/02 at approximately 18:00 hours a spill occurred on Drill Site 4 in the vacinity of well 5 during fluid packing of a hardline rig-up in preperation for pressure testing. The work crew had finished the set up that included installing a pump-in-sub on well 5 with hardline tied into well 6, to a choke skid, and on to a flowback tank. Upon completion of the rig-up a triplex pump was tied into the system for pressure testing of the hardline. During pre-test fluid packing of the hardline diesel escaped from one of the 1502 hammer unions soaking an area of approximately 100 square feet. The incident was subsequently reported and clean up efforts were initiated. There were no injuries associated with this event, and at no time was the released material in danger of reaching the tundra. Spill review held July 12, 2002.	Contaminated material was removed with Bobcat,and dump box.	Material will be brought to T pad for disposal.	This is the second,and final report

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/12/07	2007-IR-2155184	Access Road, Term Well Lake A, Non Process Area	Hydraulic Fluid	8.00	L-74/R-732 was trimming ice on Term Well Lake A in support of the Pt. Mac ice bridge project. During the trimming operations the drive mechanism to the hydraulic pump motor failed causing the pump to twist. This unexpected motion resulted in the failure of one of the hoses. The hose released hydraulic fluid (approximately 8 gallons) into the 14 mph wind resulting in the misting of approximately 320 square feet of ice chips. Contractor immediately reported spill to non-emergency call number, ACS responded, spill cleaned up (approximately 1 maxi haul trailer of contaminated ice ships) and contaminated material taken to T Pad for ultimate disposal.	A loader and dump truck was used to recover the contaminated ice.	Contaminated ice was taken to T-pad for storage and future class 1 disposal.	Immediate notifications were made.
3/7/05	2005-IR-1270611	Niakuk, NK-17 well head cellar area, GPMA	Diesel	8.00	During the routine daily wellhead checks the operator noticed the SVS drum appeared to be wet down the side. Upon further investigation liquid was trickling out of the top of the drum and onto the gravel pad. NK-17 is a long-term shut-in well that has been out of service since 1.15.2002. It also has a Wireline retrievable SSSV that has been removed since (????), the well head safety system panel had been removed from the well and connection hoses were still attached to the well head connections, with the other end placed inside the SVS Drum. The Drill Site Operator investigated the problem and found that the SSSV Control line block valve was left partially open, which allowed well bore fluids to seep into the drum.	Hand tools were used to recover the heavily contaminated gravel once the Rig was moved.	The material was sent to G&I for disposal.	NOTE:This is a Final Report
12/18/06	2006-IR-2092026	Well Pad J, J-20, GC2/SAT	Diesel	8.00	On the evening of 12/17-18 the equipment hauler was delivering some mobile equipment to J-pad when he noticed that a Triplex pump on location was leaking material from the sump. Investigation revealed a crack in the diesel reservoir tank on top of the unit. SRT was notified and it was determined that approximately 18 gallons had been released from the tank with 10 gallons contained in the sump and 8 gallons released to the ground surface. The Triplex pump was taken to the shop and tagged out of service pending repairs and the area was cleaned up by SRT.	The contaminated snow and gravel was cleaned up with a Bob Cat and Dump Truck.	Contaminated snwo will be put into a diesel snow melting bin sucked out and taken to GC-2 for recycle. The contaminated gravel will be taken to Pad-3.	
6/23/04	2004-IR-949403	GC-2, GC2/SAT	Crude Oil	8.00	Operator was flushing out the B-Dehy thru a 3" Camlock hose to the Spicer tank. Upon flowing thru the camlock fitting, he noticed that it was leaking and was spraying the wall as well outside onto the ground thru a nearby doggie door.	Shovels were used to clean affected gravel under skid. Sorbent materials were used to clean inside the skid and facility pipework.	The affected gravel was taken to Grind & Inject facility. The Sorbent material was taken to an approved NSB oily waste dumpster.	
4/24/07	2007-IR-2238301	MCC Laydown Yard, Maxipad across from U-5 stores, Non Process Area	Turbo 32	8.00	While attempting to retrieve an OCB with a loader, the OCB slid off the transportation skid mount. This caused one of the bushing to break spilling approx 5 to 10 gallons of insulating mineral oil.	The mineral oil was cleaned up using sorbent as well as picking up all snow that was contaminated with the mineral oil. This was put into plastic bags for disposal by the spill response crew.	Sorbents were sent to Oily Waste for disposal. Snow went to T-pad storage pad for disposal at Pad-3.	
3/16/04	2004-IR-836088	Well Pad A, Cellar of well A-9, GC3	Corrosion Inhibitor	8.00	As the field operator was inspecting the well house at A- 9 he found corrosion inhibitor spraying from the fitting on top of the metering valve. The field operator isolated the valve assembly and checked the fittings. The operator found one that was loose. The operator then opened the chemical system and checked for leaks. No additional leaks where found at that time. All proper notifications where made and SRT conducted clean up operations. The field operator found the leaking fitting in the morning of 3 / 16. It is not known when the fitting began to leak.	Shovels were used to clean affected gravel inside the Well house.	The material was given to the GPB hazwaste coordinator for proper disposal determination.	
4/12/07	2007-IR-2229046	West Gas Injection, WGI Well 4, Non Process Area	Motor Oil	8.00	On the morning of 12 April 2007, at approximately 2:45 am, an employee was removing snow from WGI using BP Loader 52-239. He dumped a bucket of snow from the reserve pit, and was going back into the reserve pit to get another load, when another employee onsite told him to stop the loader because he was leaking oil. The cause of the release is a failed valve. The amount released to the ground is estimated to be 9 gallons. The incident will be classified as a spill.	The contaminated snow was recovered with the use of a skid-steer loader and hand tools.	The contaminated snow went to T-pad waste storage pit for future class I disposal.	
4/22/03	2003-IR-490477	GC-3 Pad, GC3 Pad Skid 40	Hydraulic Fluid	8.00	A 966 loader, #52-242, ruptured a hydraulic hose while working on the GC3 Pad near Skid 40. The Hydraulic fluid that sprayed onto the ice and snow covered pad is esimated in excess of 10 gallons.	All contaminated snow was removed using loader and dump truck and placed in storage facility.	Contaminated material was removed and hauled to T-Pad storage facility.	
1/15/05	2005-IR-1209557	MCC Laydown Yard, MCC Laydown Yard, Non Process Area	Hydraulic Fluid	8.00	The crew was setting up to start erecting well houses. As the crane operator extended the out riggers an internal hydraulic line ruptured causing hydraulic fluid to contact the pad. The fluid was contained under the crane with no run off.	Contaminated snow was recovered with a loader and bucket and placed into a dump box for disposal.	Contaminated snow will be taken to T-pad for disposal.	
3/1/06	2006-IR-1741945	VMS Building, VMS Pad, Non Process Area	Motor Oil	8.00	Breather tube on dozer 56-305 froze and caused motor oil to be forced out the dip stick hole	A loader and dumptruck were used to clean up spilled material.	Contaminated snow was taken to T-Pad storage pit.	
7/10/02	2002-IR-264905	Spine Road, Spine road near GC-3 on the WOA.	Diesel	8.00	Unknown spill discovered on road by Security Dept., believed to be caused from vehicle traveling on Spine Rd.		Product burned on site.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/4/96	1996-IR-91024	Well Pad Y	Methanol	8.00	Trico employee was transferring methanol from a BP methanol tank to the Trico unit methanol tank. The records from the off-take meter totalizer indicated that 26 bbls had been pumped from the tank. Trico employee proceeded to transfer 26 bbls back into the tank. After transferring 15 bbls the tank overflowed out the vent line and onto the pad. NOTE: This tank is also the dump vessel for the emergency shut down hydraulic system on this unit; hence the hydraulic fluid in the spill volume.		The clean up material was placed in the melt tank inside A3/W2 on Santa Fe Pad. The fluids will be recovered and used for freeze protection.	A Trico unit was refilling its methanol tank after well work on Y 34. The gauge on the unit showed the tank was 26 BBLs low. Approx. 15 BBLs into the operation, methanol began overflowing the vent and onto the Pad. Approx. 10 gallons spilled before the
7/9/92	1992-IR-90909	Santa Fe Pad	Diesel	8.00	Wheeled auger rigs, left behind from previous work, leaking fluids onto pad. Contractor is now out of business and no longer operating on Slope.		Contaminated gravel taken to AIC incinerator.	Wheeled auger rigs, left behind from previous work, leaking fluids onto pad. Contractor is now out of business and no longer operating on Slope.
5/23/92	1992-IR-87221	Well Pad F	Diesel	8.00	Melt water flowing into the well house caused surface diesel from the outer annulus to flow to the outside of the well house. A vac truck was used to suck up the diesel then removed the water. Contaminated gravel removed with a loader. Fluids were recovered and returned to the system. Gravel was transported to the T-Pad lined pit. Removal of diesel fluid from the well house or a quicker response with a vac truck would have allowed the fluids to be removed prior to an overflow.		Fluids were recovered and returned to the system. Gravel was transported to the T-Pad lined pit.	Melt water flowing into the wellhouse caused surface diesel from the outer annulas to flow to the outside of the wellhouse.
2/9/93	1993-IR-86646	Well Pad, Roads	Diesel	8.00	The ice road gave way causing a truck to tip over. Diesel and oil spilled from tank onto snow and ice beside road. All visible contaminants were picked up with a loader and shovels. Contaminated snow was loaded into a dump truck and bags for removal from the site to A3W2.		Contaminated ice and snow to be melted at A3W2.	The ice road gave way, causing truck to tip over. Diesel and oil spilled from tanks onto snow and ice beside road.
2/3/93	1993-IR-87465	Well Pad Z	Corrosion Inhibitor	8.00	Corrosion inhibitor spill was caused through the gas lift vent while bleeding down the system to change out a orifice plate.		Contaminated material was taken to A3/W2 snow melter.	Residual corrosion inhibitor fluid was blown out of the vent line because of over pressurizing .
5/19/92	1992-IR-97353	Drill Site 06	Diesel	8.00	Open valve on pump allowed material to drain and overfill containment pan.	Metis/Cleanup		Open valve on pump allowed material to drain and overfill containment pan.
9/24/93	1993-IR-98047	Drill Site 03	MEG	8.00	Drain valve left opened on pig launcher during a corrosion job.	Metis/Cleanup		Drain valve left opened on pig launcher during a corrosion job.
7/23/96	1996-IR-98296	PBOC	Diesel	8.00	"A 2""" ball valve leaked on a 90-250 Triplex pump vehicle."	Used bobcat with scratcher and bucket to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/23/96 to be held for future remediation.		"A 2""" ball valve leaked on a 90-250 Triplex pump vehicle."
10/8/92	1992-IR-97803	Flow Station 2	Diesel	8.00	Material released from a blown plug on engine injector pump.	Metis/Cleanup		Material released from a blown plug on engine injector pump.
7/15/94	1994-IR-98232	West Dock Road	Diesel	8.00	Contaminated gravel was observed during routine inspection.	Bobcat loader and hand shovels were used to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/16/94 to hold for future remediation.		Contaminated gravel was observed during routine inspection.
5/29/93	1993-IR-97940	Drill Site Maintenance	Diesel	8.00	Ran out of full fuel tank on tractor as weather warmed up.	Metis/Cleanup		Ran out of full fuel tank on tractor as weather warmed up.
3/20/91	1991-IR-97658	Drill Site 18	Crude Oil	8.00	Temporary lift line needle valve hit during snow removal.	YES -		Temporary lift line needle valve hit during snow removal.
9/22/91	1991-IR-97549	Flow Station 1	Crude Oil	8.00	Sprayed out of drain tank vent due to excess pressure.	YES -		Sprayed out of drain tank vent due to excess pressure.
12/19/94	1994-IR-98402	Flow Station 2	Diesel	8.00	Diesel tank on a pickup truck leaked.	A loader and bucket were used to clean up the contaminated snow and gravel. - The snow was melted and taken to FS1 for recycle. The contaminated gravel was taken to Pad 3 West Pit to be held for future remediation on 12/19/94.		Diesel tank on a pickup truck leaked.
4/22/91	1991-IR-97308	Flow Station 2	Lube Oil	8.00	Oil sprayed from pump during startup.	YES -		Oil sprayed from pump during startup.
9/17/81	1981-IR-96059	Drill Site 07, Not specified	Crude Oil	8.00	Depress test failed	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/2/88	1988-IR-96520	Drill Site 14, Not specified	Diesel	8.00	Faulty valve seal	Not specified	Not specified	Not specified
2/11/89	1989-IR-100867	Not specified	Diesel	8.00	Tank overfilled	Not specified	Not specified	Not specified
4/21/86	1986-IR-95949	Seawater Injection Plant, Not specified	MEG	8.00	Gasket failure	Not specified	Not specified	Not specified
5/8/99	1999-IR-93913	GC-1 Gas Section	MEG	8.00	Rover Operator, making his rounds, found a small puddle of MEG on the ground under Sk-22 piperack. Absorbent pads and spill containment was placed under the source of the leak. A manlift was immediately ordered from VMS to access the overhead pipe rack location of the leak for source control. The spill was reported following procedures. Source of the leak was a failed O-Ring gasker on a heat trace temperature control valve. Valve was repaired and returned to service. Spill cleanup completed by OI Lead Spill Tech and crew.		Nonhazardous material will be taken to Pad 3.	N/A
6/4/99	1999-IR-94014	Well Pad G	Crude Oil	8.00	Grease zerk on well G-6 wing valve started leaking process fluids, approx 8 gallons. The well had been shut in with the wingvalve in the closed position.		The liquids from the Vac truck were taken and recycled at GC-1. The sorbent material was bagged and put in a oily waste dumpster.	
9/24/00	2000-IR-95397	Well Pad B	Diesel	8.00	While supporting coil tubing operations at well B-13, a truck tractor was parked at the location. Sometime during the night, the diesel fuel saddle tanks were topped off. However, because the truck was sitting at a slight angle (2 inches over 8 feet or slightly over 2 percent), the tank on the downhill side overflowed. Approximately 4 gallons spilled onto the gravel pad with another 6 gallons being caught in secondary containment.	A loader with scratcher and bucket were used to remove diesel contaminated gravel.	Contaminated gravel was taken to Pad 3. The material in secondary containment was sucked out for reuse at VMS.	
3/4/00	2000-IR-94695	GC-1 Pad	Diesel	8.00	Vehicle # 14-494 experienced a failed fuel filter housing gasket which resulted in a spill of 8 gallons of diesel fuel in the parking area. The vehicle was not immediately known to be the cause of the spill.	The affected snow was chipped and shoveled up using hand tools. The affected gravel was removed using a trimmer unit.	Diesel contaminated snow was melted for re-use. The gravel was hauled to Pad 3.	
9/1/00	2000-IR-95423	Lisburne Production Center	Produced Water	8.00	Operator overflowed truck while loading produced water at the LPC sand bins	SRT used a bobcat to remove contaminated gravel	Pad 3	
10/23/04	2004-IR-1099696	BOC Pad, Greater Prudhoe Bay at BOC parking area., Non Process Area	Diesel	7.50	A Milne Point Pool vehicle was being used by Security for passenger transport to the Deadhorse Airport. When the Security officeer pulled in to the BOC parking area he noticed that diesel fuel was leaking from underneath the vehicle. He shut off the engine immediately and found a drip liner to place under the vehicle. ACS was notified to start clean up operations.	Contaminated snow and ice were recovered by means of shovel and chipping bars and placed in oily waste bags for transport to snow melt bins. Free standing liquids were picked up with absorbent pads.	Contaminated snow and ice were taken and will be melted down and recycled.	.75 gallons recovered from pad, 1.5 gallons in containment underneath hood and engine blanket, with estimated quantity of 5.25 spilled from Milne Point facility to BOC pad 40 mile length of roadway. Spill Techs drove area and were unable to visually observe any contaminated material to recover. Actual quantity unknown 5.25 gallons is a worst case estimate of material on pad.
6/17/03	2003-IR-541196	Well Pad E, in front of Well E-2A	Hydraulic Fluid	7.50	While running into well with coiled tubing, unit #5. Two hoses had rubbed together under the coiled tubing unit causing one to fail. SRT was notified. estimate made of 1.5 gal. hydraulic fluid spill.	Contaminated gravel has been removed with heavy equipment and hand tools. Secondary containment was wiped out using absorbent pads.	The contaminated gravel will be taken to Pad-3 for disposal. Absorbent material has been taken to an approved NSB oily waste dumpster.	
8/15/00	2000-IR-95273	Lisburne Production Center	Crude Oil	7.50	Valve X002V was found leaking through to the fluid flare pit. In order to ready X002V for tear down maintenance, the line was blown down to the liquid pit to disperse the hydrocarbons from the line. Liquids from this line escaped a containment drum set up to catch the fluids.	The spill response team is currently in the process of cleaning up the spill.		
8/15/00	2000-IR-95273	Lisburne Production Center	Fresh Water	7.50	Valve X002V was found leaking through to the fluid flare pit. In order to ready X002V for tear down maintenance, the line was blown down to the liquid pit to disperse the hydrocarbons from the line. Liquids from this line escaped a containment drum set up to catch the fluids.	The spill response team is currently in the process of cleaning up the spill.		

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/10/03	2003-IR-506481	Spine Road, Spine road adjacent to Frontier Pad	MEG	7.00	On May 7, 2003 the driver of a food services of America tractor trailer lost control of his vehicle and went off the spine road on the WOA near Frontier Camp. The vehicle stayed upright but there was some damage to the vehicle and a spill of approximately 7 gallons oil and glycol. Driver stated he was trying to make some notes while driving causing him to lose control of his vehicle. The truck involved is a vendor delivery truck that makes deliveries to all North Slope camps. The driver was enroute from Milne Point after a substancial delivery there, to drop off 100 lbs of freight at the BOC prior to returning down the haul road.	The spilled product and contaminated snow was recovered by shoveling the material into the bed of a off-road track vehicle for transport to an approved waste storage/disposal facility.	All material waste taken to T-pad waste storage facility.	The released material actually consisted of 6 gallons MEG and 1 gallon of motor oil. All the motor oil released was to tundra, none to containment. The driver put a spill dike under the glycol leak, catching 3 gallons of the MEG in containment. The original notification of this spill was reported verbally on 5/7/03.
6/4/06	2006-IR-1857457	Seawater Treatment Plant, STP Module 4922, FS1/SIP/STP	Seawater	7.00	Operator discovered a pinhole spray of oxygen scavenger (ammonium bisulfite) from the body of a 1" block valve on the line from the chemical pump to the dilution water mixer on deaerator tower 11-12201. The spray covered an area of approximately 50 square feet at a rate of about 5 gallons/hour. Upon discovery of the leak, the pump was shut in, the line flushed with process seawater, and the valve replaced.	Vacuumed up and diluted with water; recycled into process seawater.	Recycled into process seawater	Note: Material released is ammonium bisulfite (an oxygen scavenger) which is not listed in the drop-down menu.
6/17/01	2001-IR-101681	Well Pad X	Diesel	7.00	Operator was bleeding IA and overfilled the bleed tank. Once he discover the tank overfilling into the onboard secondary containment, he stepped on the trailer causing the trailer to tip in a 45 degree angle. The tailer had a jack stand that is to be utilized for this purpose, but was not utilized. Once the trailer tipped over, the diesel spilled out of the secondary containment and onto the gravel pad.	The contaminated gravel was shoveled into loader bucket and placed in dump truck to be transported for disposal. The melt water and diesel in containment was pumped into a drum and the tank was wiped down with absorbent. A vac truck sucked out the tank an	Contaminated gravel was taken to Grind and Inject facility for class II disposal. The liquids have been taken to Pad-3 disposal facility.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
4/5/07	2007-IR-2216906	CIC Facility, CIC building NW corner of pad., Non Process Area	Sewage	7.00	Employee's noticed sewage water was coming from the enviro-vac sewage water supply line onto the pad. Employee immediately informed his supervisor and the CIC HSE Advisor about the leakage. The system was immediately shut down and SRT to clean up the spill and the pump truck was called to empty sewage tank. SRT showed up on the scene and estimated the spill to be approximately 7 gallons. Upon further investigation, it was found that the sewage tank had overflowed and sewage water was coming out of the sewage water supply line onto the pad. The overflow alarm had not sounded to alert anyone of the overfill. The VECO enviro-vac techs were called to determine why the overflow alarm did not work and to repair it.	A loader and dump box was used to recover the contaminated snow and ice	Contaminated snow and ice was taken to T-pad for future class 1 disposal.	Immediated notification was made. The affected area will be covered with lime .
2/5/07	2007-IR-2144660	Well Pad W, Nabors Alaska Drilling Rig 7ES W-Pad W-204, GC2/SAT	Drilling Mud	7.00	LVT-200 Mineral oil base mud was being transferred into the rigs mud pits storage tank from a vac-truck. The end of the 3¿ hose being discharged from was below the fluid level in the pit. At the end of the transfer air was discharged through the 3¿ hose causing LVT-200 to be splashed up onto the top of the tank where it ran down the side of the tank, approximately 7 gallons reached the ground, 3.5 gallons in containment and 3.5 gallons outside of containment by the rigs cuttings tank area. Notifications were made to 5700 non-emergency spill response and ACS spill tech.	Free liquid was picked up with absorbent pads, contaminated snow and ice was chipped up and placed into oily waste bags for pick up by ACS Spill Techs.	The contaminated absorbent pads have been taken to an approved NSB oily waste dumpster. The contaminated snow will be taken to Pad-3.	
9/4/06	2006-IR-1964354	Well Pad Q, In front of well Q-02., GC2/SAT	Crude Oil	7.00	While connecting the 3¿ hose for a fluid transfer the worker did not confirm that the other end of the hose was connected. When he opened the valve to the crude tanker crude oil discharged from the open end of the hose into the containment dyke and onto the gravel pad.	A bobcat and hand tools were used to clean affected gravel. Sorbent material was used to clean spill tray.	The contaminated gravel was taken to DS-4 Grind and inject facility. The sorbents used were taken to an approved oily waste dumpster.	
8/24/01	2001-IR-111596	Lisburne Production Center, LPC, Injection well #2	Hydraulic Fluid	7.00	Halliburton was supplying cement for a coil tubing squeeze job at LPC-2. After completing the cement squeeze, the crew began to displace the cement and fluids from the surface piping and associated equipment. During the displacement operation a 1/2 inch hydraulic hose, from the tank reservior to the charge pump, failed resulting in approximately 2 gallons of hydraulic fluid being release to the gravel pad and 5 gallons into the secondary containment of the cement van. An investigation into the incident revealed the hydraulic hose parted at the crimp of the hose fitting. The crew immediately notified the Well Operations Supervisor, Lisbourne Facility Supervisor, and the Environmental Department of the incident. The Halliburton crew began initial clean up activities and the ACS Spill Technician's were dispatched to remove the contaminated gravel and absorbent materials. There were no injures or property damage as a result of this incident.	Recovered product with absorbents/hand tools/bobcat and placed into oil waste bags and dump box for disposal. Lightly contaminated gravel taken to Pad 3 for disposal and absorbents taken to oily waste dumpster.	9 cu. yrds of lightly contaminated gravel taken to Pad 3 for disposal. Contaminated absorbents disposed of in oily waste dumpster.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/10/01	2001-IR-108550	Drill Site 09, DS-9-25	Diesel	7.00	A wireline unit was on location to rig down on DS-9-25. The employees were preparing to fill the lubricator with diesel to clear injection well schmoo from lines and surface equiptment. Before the lead hand started to pump, it was noticed that the tri-plex was leaking fluid from containment above the left-rear axel of the unit. The check valve had failed on the sump drain line and the built in containment did not hold the material release due to cracked welds. When the leak was noticed, absorb pads was placed around the triplex and the lead hand tried to turn on the sump pump, which did not work. Immediately the employee closed the supply valve, disconnected the supply hose and pumped out the sump by hand. The built in containment caught 5 gallons of the diesel and 2 gallons was spilled on the pad. Appropriate Supervision, SRT was notified immediately and responded for cleanup and disposal. There was no harm to the Tundra and nobody was hurt.	Bobcat and dumpbox, hand tools, sorbents were used to recover contaminated material.	Contaminated gravel was brought to pad 3, sorbents to oily waste dumpster.	
9/4/06	2006-IR-1964853	Fleet Shop, PBOC Veco Fleet Shop, Non Process Area	Hydraulic Fluid	7.00	During the early morning hours of 04 September 2006, at approximately 3:00 am, an employee had just completed changing a swing gear box on Coast Crane # RT 0142 (60 ton) at the VECO Fleet Shop. Upon completion of the task, the employee moved the crane outside of the shop to test it out. When the employee set the brake, the crane released hydraulic oil from the newly installed swing gear box. The amount released is estimated to be approximately 7 gallons. Notifications were promptly made.	Bobcat and duimp box were used to remove contaminated material.	Contaminated material was brought to Pad 3 for disposal.	
12/2/05	2005-IR-1639457	Spine Road, Non Process Area	Motor Oil	7.00	AIC crane R-19744 (leased to Peak) was proceeding east on the Spine Road between W Pad and S Pad when the wiggins fitting on the engine oil pan came out of the oil pan. The crane operator, following in the rigging truck, noticed the material when the crane had passed over it and had the crane driver stop. Spill containment was immediately placed under the engine, the spill was reported, SRT responded and the material was recovered from the road. A Peak mechanic responded to the scene and replaced the wiggins fitting with a new fitting.	Shovels and brooms were used to remove the contaminated snow and gravel from roadway.	The material was taken to T-pad storage facility.	
4/7/05	2005-IR-1315842	Drill Site 18, DS-18, FS1/SIP/STP	Hydraulic Fluid	7.00	While removing snow at DS-18, snow blower #53-007 had a hydraulic pump gasket failure, releasing 1 gallon of hydraulic fluid to the pad and 6 gallons into secondary containment.	Contaminated snow was recovered with a loader and bucket, then placed into a dump box for disposal.	Contaminated snow went to T-pad for disposal.	
5/7/03	2003-IR-503836	Drill Site 09, Drill site #9 between well #19 and 20.	Hydraulic Fluid	7.00	A main hydraulic hose fitting on loader #52-239 failed while performing work on drill site #9 pad, between well #19 and 20. This resulted in a spill of approximately 5 gallons of hydraulic fluid to the pad.	Material was recovered using a bobct and dumpbox.	Material was taken to T-pad for disposal.	
5/2/03	2003-IR-499851	West Gas Injection, WGI Reserve Pit	Hydraulic Fluid	7.00	Loder # 52-306 ruptured a hydraulic hose while working in the WGI Reserve Pit. The rupure caused a loss of hydraulic fluid to the ground within the reserve pit.	Material was recovered with hand tools and a loader and placed into a dump box for disposal.	Material was taken to T-pad for disposal	
2/8/01	2001-IR-100501	Niakuk Pad	Seawater	7.00	The rig had run and set 4.1/2" Liner at 13,948 ft. The well was being displaced to 9.6 ppg Brine at a high flowrate- 8 BPM. The derrickman noticed brine splashing in the cuttings trough and discovered the 7 gallon spill below the rig substructure. The fluid was passing through the seam of the cuttings chute and conveyor. This was the first time the rig had circulated thin fluid at a high rate since returning to operations in January. The operation was stopped, the spill cleaned up and placed back into the orginating stream and a debrief held of the incident. Returns were rerouted for the rest of the displacment operation. The early investigation by the derrickman prevented the spill from being much larger.	Used hand tools to recover product.	Placed back onto conveyor belt for reuse	
3/15/03	2003-IR-459724	C Pad, C-Pad Dempster dock	Hydraulic Fluid	7.00	While loading a Dempster chemical tank onto the back of the Dempster truck, the main ram hydraulic hose burst near a crimped fitting. Seven gallons of hydrailic fluid spilled onto the gravel pad. All protocols were followed and cleanup commenced. 7 gallons spilled.	Material was cleaned up with a loader and hand tools and placed into a dump box for disposal at T-pad	Material taken to T-pad for disposal.	
12/6/03	2003-IR-702271	Well Pad S, On the northwest end of the pad, directly in front of well S-102 near the edge of the pad.	Sewage	7.00	App. 7 gal. of grey water was spilled from the rigs satellite camp when a nipple in the drain system was dislodged during a move. The small camp had been moved from its location on Z pad and had been set off to the side of S pad. While in this temporary location app. 7 gal. of shower water was released to the gravel. The spill was noticed and reported shortly after it occured at app. 4:30 A.M..	Will wait until the camp is moved and positioned in its permanent location near the rig. The ice will then be bagged and disposed of by, "Alaska Clean Seas".	CC2-A Pit	
4/20/94	1994-IR-88504	Drill Site 04	Diesel	7.00	While flushing out mandrel hanger with diesel prior to installing 9 5/8" packoff, cellar overflowed with diesel and ran out onto pad. Visual confirmation of cellar volume was impaired due to herculite. Spill of approximately 7 gallons.		The total contaminates picked up were 99% ice and diesel and less than 1 % gravel. The diesel was exempt, as it came out of the well head. All contaminates were sent to CC-2 ball mill for injection disposal.	The well cellar was overfilled while flushing excess packing from around a 9 5/8" mandrell hanger. The overflow of diesel was below the liner material and seeped out from under the rig mats near the well cellar.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/6/96	1996-IR-89739	MOWF Stores	Diesel	7.00	THE FUELER WAS DRIVING ONTO STORES PAD AND SAW HIS METER RUNNING.KNOWING THAT HIS PUMP WAS NOT ON HE STOPPED THE TRUCK,GOT OUT AND SAW THAT THE FUEL HOSE ON THE RIGHT SIDE OF THE TRUCK HAD COME OUT OF ITS HOLDER AND HE HAD DRIVEN OVER THE NOZZLE BREAKING IT OFF OF THE HOSE. THE FUEL THAT HAD RUN ONTO THE GROUND WAS JUST GRAVITY FED FROM THE TANK ON THE TRUCK.		The non-hazardous contaminated snow was placed in T Pad pit.	The fuel transfer hose on the fuel truck came out of its holder during transport. The truck ran over the hose breaking off the nozzel, which allowed diesel to spill onto the pad.
11/1/96	1996-IR-89730	Well Pad C	Methanol	7.00	Approximately seven gallons of methanol was spilled from a hose during fluid transfer between the tank farm and manifold skid of the squeeze unit. An incident investigation revealed the root cause of the spill was failure of a 2 inch methanol hose.			During fluid transfer between the tank farm and manifold skid of the squeeze unit, methanol was spilled from a hose due to bad seals on a hose connector.
1/9/92	1992-IR-87365	Well Pad Y	Diesel	7.00	Valve was left open during fluid transfer allowing diesel to spill into containment dike overflowing onto the pad.		Spilled diesel was put in a frac tank to be reused in well work process.	Valve was left open during fluid transfer allowing diesel to spill into containment dike overflowing onto the pad.
4/23/94	1994-IR-98169	Spine Road	Diesel	7.00	Fitting on the Utility trailers fuel tank broke allowing material to flow out the site gauge hose.	Metis/Cleanup		Fitting on the Utility trailers fuel tank broke allowing material to flow out the site gauge hose.
12/31/94	1994-IR-98408	Drill Site 16	Methanol	7.00	"While priming pump with methanol water, material leaked from a loose fitting."	Metis/Cleanup		"While priming pump with methanol water, material leaked from a loose fitting."
5/2/97	1997-IR-98678	Spine Road	MEG	7.00	Rock hit radiator while driving and put a hole in the core.	Used hand shovels to pick up contaminated snow and gravel. - Contaminated snow was taken to Pad 3 East Pit on 5/3/97 to be held for future melting and injection.		Rock hit radiator while driving and put a hole in the core.
2/8/95	1995-IR-98558	Drill Site 05	Seawater	7.00	"Interior seal on 2""""" chicksan connection failed."	Contaminated snow was shoveled up and placed into snowmelter. - Contaminated smow was melted and placed in trash truck????		"Interior seal on 2""""" chicksan connection failed."
8/6/93	1993-IR-86689	Well Pad G	Diesel	7.00	The operator bled pressure into the bleed tank too fast. The tank was too full. The swab valve had a small leak causing a spill of 7 gallons of diesel. All contaminatns were picked up with a bucket loader and taken to Pad 3 for disposal. The crew was counseled to check the fluid level in bleed tanks and to follow proper bleed prcedures.		All contaminated gravel taken to to Pad 3 for disposal.	1. Operator bled pressure into bleed tank too fast.
9/7/90	1990-IR-97098	Drill Site 03	Crude Oil	7.00	Missing Hatch Gasket Let Crude Seep From Tank.	YES -		Missing Hatch Gasket Let Crude Seep From Tank.
11/18/90	1990-IR-97178	Drill Site 11	Seawater	7.00	Overfilled tank while bleeding pressure.	YES -		Overfilled tank while bleeding pressure.
11/9/92	1992-IR-97727	COTU Facility	Diesel	7.00	Operator failed to open top valve.	Metis/Cleanup		Operator failed to open top valve.
5/4/90	1990-IR-96899	Drill Site 13	Crude Oil	7.00	Camlock hose came loose.	YES -		Camlock hose came loose.
12/31/88	1988-IR-96590	Warm Storage, Not specified	Diesel	7.00	Fuel tank leaked	Not specified	Not specified	Not specified
7/8/00	2000-IR-95127	West Dock #3	Diesel	6.80	Spill occurred due to faulty clamp and operator error during filling of a tug. Diesel sprayed over a 10' by 12' area.	Soaked up fuel with sorbents and removed contaminated soil and put in lined bin for remediation in Prudhoe Bay.	Alaska Clean Seas removed and disposed of sorbents. Alaska Interstate Construction will remediate the woild upon receiving the test results from Northern Testing Labs.	An investigation was conducted by Nana Oilfield Supervisor and a spill response technician. Proper notification of the spill was performed. A prevention class will be assessed during weekly safety meeting.
5/4/04	2004-IR-893860	Drill Site Maintenance, Intersection between DSM and J-Pad, Non Process Area	Seawater	6.13	At approximately 14:40 an open bag of KCL was discovered near the intersection of Drill Site Maintenance and J-pad. It looked as though a 50lb bag of KCL had fallen off a truck on it's way to the Hot Water Plant.	The material was recovered with a loader and bucket and placed into a dump box for disposal.	Material was taken to Pad-3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/30/06	2006-IR-1779340	Seawater Treatment Plant, STP modual 4922 Deaerator 12201, FS1/SIP/STP	Corrosion Inhibitor	6.00	Oxygen scavenger released from leak in injection line to deaerator tower #1. Ammonium bisulfite solution oxygen scavenger was released to module floor.	Used absorbent pads, diluted area with potable water and then vacuumed wth drum vacs.	Absorbent pads disposed in solid oily waste bag and water mixed solution will be reused back in system.	The actual material released was Oxygen Scavenger (metabisulfite). MSDS attached to electronic IR report. 4/30/06 - This spill was originally reported on 3/30/2006 as one gallon. An additional 5 gallons was discovered resting in the supporting I-beam below the tank. Accessible material vacuumed up and put back in process. Agency notifications completed. Remaining material to be cleaned up when scaffold is available.
12/5/05	2005-IR-1643746	PM-1, Pt. Mac1 chemical corrosion inhibitor tank and pump house, GPMA	Corrosion Inhibitor	6.00	During module walk through a small leak on the corrosion inhibitor tank fill line. The fitting leak was isolated from tank and pump while the area was well ventilated. The leak source was found on a 45 degree elbow on the six o'clock position. The corrosion inhibitor was contained in the secondary liner.	Sorbent and chem-Clear were used to remove contaminate from containment.	Oily waste stream.	Agencies were notified of release. The majority of the fluid was sorbed up, and Chem-Clear was applied to contaminated area, and new sorbent was put down to soak up remaineder of contaminate. these will be picked up in a couple of days. - absorbents were picked up and the contaiment was wiped up with chem-Clear and rags.
4/14/01	2001-IR-101230	Drill Site 11	Sewage	6.00	Approximately 6 gallons of waste water (gray water) leaked out of the holding tank at DS11. The isolation valve on the inside section of the fill line leaked, causing backwards flow out the line.	Used ice chippers,shovels,and oily waste bags.	1 Yard of contaniated matrial was taken to pad-3 for disposal	This information is being provided to ADEC per 18 AAC 75.300 the time on the initial report was incorrect. Please refer to final report
6/3/03	2003-IR-527207	Well Pad C, C-28 lateral valve.	Crude Oil	6.00	During routine HSE walkthroughs, a leak was discovered underneath the lateral valve of well C-28. The material had been obscured by snow, but as the snow melted, the pool became visible.	Contaminated snow and gravel was shoveled into a loader bucket for transportation to appvoved disposal/storage facility.	The snow was taken to T-pad storage pit and the gravel was placed in the approved accumulation bin @ Santa Fe Pad.	A secondary containment dyke was placed under the valve to prevent future releases from contacting the gravel pad.
6/13/06	2006-IR-1869126	Seawater Treatment Plant, STP deaerator bay 1&2 foot level on chemical injection line, FS1/SIP/STP	Seawater	6.00	A leak developed on a check valve on O2 injection line to deaerator tower 12201	The liquid was sucked up into a vacumm drum, wet floor with water then sucked that water up into the same vacumm drum	Reinjected back in seawater process stream.	NOTE: This Material was not Seawater. It was Oxygen Scavenger!!! Agencies were notified of release.
12/2/02	2002-IR-382530	Drill Site 03, DS 3 Pipeline access road	Hydraulic Fluid	6.00	Snowblower # 53-003 was working on the DS-3 pipeline road. The machine experienced a failed hydraulic hose. Machine was shut down, hose was replaced and other hoses inspected for integrity. Notifications to Security, SRT, Project Manager and Safety.	Hand tools, and dump box are being used to remove contaminated materal.	158.5 yards of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agecies. Initially reported on 12/2/02.
5/2/03	2003-IR-499911	GC-2 Pad, GC2 pipe rack 474 on west end of skid 301.	MEG	6.00	A copper glycol heat trace line in an elevated pipe rack outside skid 301 developed a leak at a fitting. The drip was noticed by a contract maintenance person who notified the area operator. Operations and maintenance personnel quickly placed containment under the leak and located isolation points. Two gallons fell on the pad and approximately two more were recovered in containment.	All materials have been recovered using either direct suction, front-end loader and shovels and taken to approved storage or disposal site.	All snow/gravel has been taken to "T" Pad solid waste storage pit. Recovered liquids taken to Hazardous Waste Process Facility.	Initial Report Submitted on May 3rd, 2003

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/12/01	2001-IR-53985	Drill Site Maintenance, DSM yard.	Seawater	6.00	On 7/06/2001 a vac truck at Wells Support hatches were opened for maintenance. After maintenance was performed the truck was put in lineup at DSM yard awaiting a gasket to button up hatches. The gasket was reinstalled on 7/12/2001 and sent to SIP to be loaded. Seawater was loaded at SIP for hydrotest and upcoming job at drillsite 4. The first 100 barrels was gravity fed, then another 190 bbls. was being vac'd on. After loading 290 barrels of seawater the vacuum was bled off the tank, the hatches were inspected and tank monitored at SIP for leaks. Hydrotest was a pass. The truck returned to DSM yard awaiting a tank to be delivered to DS 4 to offload into for an upcoming coil job. The Wells Support foreman was driving through yard when he noticed fluid dripping from rear dog house of vac unit. It was found that the rear hatch was leaking. Spill containment was put in place and the truck was put in to vac mode to help contain fluids on truck. Spill techs. and other responsible parties were notified. The truck was pulled into DSM shop and vac'd out. Investigation ongoing to determine cause of leak. There were no injuries as a result of this incident and at no time was fluid in danger of reaching tundra.	Recovered material with bobcat loader and placed into dump box for disposal at Pad 3.	Pad 3 West Pit.	None
12/11/06	2006-IR-2084388	Drill Site 04, Back of test unit near 04-30, FS2/COTU	Diesel	6.00	Employees were pressure testing hardline after rig up. They pressured up to 500psi without incident, then increased the pressure on the pump. One of the hammer unions started leaking @700 psi. The employee monitoring the line shut down the operator and told him to bleed off the pressure. Approx. 10 gal spilled out while depressurizing the line, about 9 gal in containment and @ 1 gal sprayed outside of containment.	The diesel in the containment was recovered with absorbant pads. The contaminated snow outside the containment was recovered using a bobcat and put in one of the snow bins to be melted and recycled.	Heavily contaminated absorbants will be disposed as hazardous waste. The lightly contaminated absorbants was disposed as oily waste and the melted snow will be recycled.	
11/19/06	2006-IR-2055731	Main Construction Camp (MCC), MCC projects parking lot, Non Process Area	Diesel	6.00	On the morning of 11/18/06 an employee did his 360 walk-a-round and he stated that he looked under the front of the truck for any oil or glycol leaks: but did not notice anything under the truck, he did notice that the truck had used more fuel during the night as it was left running on a bullrail with no plug-ins. He then went to a tailgate meeting, during the meeting he discussed the trucks fuel usage with the other employees and the possibility of a fuel system problem came up. His foreman said to take the truck to the Light Duty Shop and have it looked at. When he went to the shop and the hood was opened a mist of fuel could be seen coming from behind the engine at the fire wall. The truck was turned off and containment was placed under the truck. The employee then went to where the truck had been parked and discovered a nine sq ft area of diesel fuel where the truck had been parked. Notifications were made and SRT responded. During the time the truck was gone a Roads & Pads loader came through and pushed some snow that had been contaminated into a pile this caused additional snow to become contaminated, also while the truck was at the shop it leaked some more diesel onto the pad and SRT cleaned that up as well. The total volume was determined to be 6 gallons. A check of the truck revealed a faulty fitting in the fuel system. The fitting was replaced and the truck was returned to service.	Hand tools were used to recover the contaminated snow and ice. A loader was used to recover tire marks on the snow covered pad where a vehicle had driven through the spill.	Heavily contaminated snow and ice will be melted down and sent in for hydrocarbon recycle. The snow scraped up where the tire marks were went to T-pad for disposal.	
11/13/02	2002-IR-364431	CPS Maint/ Central Skid, CPS Module 101	Sulfuric Acid	6.00	A pallet of large flooded batteries was being removed from a module using a loader equipped with extended forks. After picking the batteries off the outside landing the forks of loader were tilted to keep load on the forks. The batteries slid back and collided with the backboard and broke 3 cells.	All of the contaminated snow and gravel was neutralized and shoveled into oily waste bags for transportation. The pallet of batteries was placed in secondary containment and taken to the BP Haz-Waste Facility.	All of the material has been taken to the Haz-Waste Facility and will be shipped off slope to an approved facility.	
1/14/07	2007-IR-2121544	MOWF Storage Yard, MOWF Tank Farm , Non Process Area	Hydraulic Fluid	6.00	Employee was raising dempster tank to transport chemical. Tank slid down frame and broke (2) Hydraulic lines that were connected to a pump in the dog house resulting in a spill.	The contaminated material was cleaned up with IT loader and a Dump Truck.	Contaminated material was cleaned up and taken to T-pad storage pit.	
5/9/06	2006-IR-1828593	Tool Service Building, Gravel pad behind Tool Service shop, Non Process Area	Hydraulic Fluid	6.00	While unloading a drilling jar, with our IT-28 loader, a Hydraulic hose broke.	The spill was cleaned up by the tool services crew using hand tools and oily waste bags.	The contaminated snow has been taken to the T-Pad storage pit.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/7/02	2002-IR-218725	Well Pad C, GPB West Well Pad C Well 09	Diesel	6.00	While priming up pump into an empty tank the operator inadvertly opened up a tank return valve to a full tank. After obtaining prime he started pumping down the tubing on C-9 with the tank return valve to the full tank still open. The helper was outside doing a walk around and saw the full tank start to overflow out of the vent tubes. He immediately contacted the operator to shutdown pumping operations and placed a spill dike under the full tanks vent tube. The operator shut down pumping operations and equlized the full tank into the empty tank. SRT and supervisor was immediately contacted.	A loader and hand tools were used to remove contaminated snow from Well Pad	The exempt material was take to T-pad disposal facility.	
10/7/03	2003-IR-641605	L Pad (Steamer Pad), Steamer L-Pad	Hydraulic Fluid	6.00	Prior to starting this operation, the driver performed a 360 of the vehicle (Kenworth Tractor), and didn't notice any leaks. Discussed with steam plant operator the upcoming task to be accomplished, signed the seta card and proceeded to do the job. He engaged the pto and went to the rear of the vehicle to hook up. He tried the Borg pump, but it would not turn. He first thought it was frozen or jammed. Went to the front of the unit and noticed fluid on the ground. He immediately shut the vehicle down and reported the incident. The gasket on the hydraulic fluid filter had come out causing the fluid to release. The last filter change was 5-26-03, date being written on the filter case. The hydraulic system was engaged approximately 1 minute before attempting to use the Borg pump. The last load for this unit was diesel and the Borg pump was not used. Possible cause may have been an obstuction in the hydraulic line, or moisture that had frozen causing a blockage and pressure buildup. SRT responded, picked up as much fluid as possible with absorbent pads and brought a Bobcat loader to scrape up the remaining stained snow, ice and gravel. They estimated the amount as 5-6 Gals covering an estimated 100 sq.ft. Driver picked up the unit at Lima-Pad, where it had been staged for two days, and drove to the steamer pad to vac out an area of the big steamer trailer. Steam plant operator was assisting the driver during this operation by stringing out the 2" hose into the steamer unit. He did not attempt	Cleaned up fluid initially with absorbent pads and then used a bobcat, loader, and dump box, to scrape up the remaining tainted snow, ice and gravel	Material was brought to pad 3 for disposal.	
2/6/03	2003-IR-431344	MOX 2, MOX-2 parking lot.	Diesel	6.00	During the morning toolbox meeting, the roustabouts box van was idling outside of MOX-2 warming up. When returning to the van, diesel was noted underneath while inspecting the vehicle before departure. It was reported to x5700 and the clean up crew responded. Cause was determied to be a broken fuel line. Spill was noticed during the 360* walk around.	Contaminated snow was collected using a loader and taken to Santa Fe pad where the media will be melted and recycled.	This material will be recycled at GC-2	
5/21/98	1998-IR-100663	Seawater Treatment Plant	Diesel	6.00	Diesel return fuel tank on snow blower overflowed and diesel spilled onto the gravel pad. Ice or frozen snow had drug off the guard that protects the equalizer valve between the two fuel tanks and the handle of the ball valve had been knocked into the	Used Bobcat and scratcher to scrape up gravel and put into dump box to be taken to Pad 3 West Pit. - The contaminated gravel was taken to Pad 3 West Temp Pit on 5/21/98.		Diesel return fuel tank on snow blower overflowed and diesel spilled onto the gravel pad. Ice or frozen snow had drug off the guard that protects the equalizer valve between the two fuel tanks and the handle of the ball valve had been knocked into the
4/7/95	1995-IR-98590	MCC Fuel Dock	Diesel	6.00	Camlock lock wires broke and valve worked its way open due to pressure and pump vibration. Approximately 4 gallons of diesel discharged into the secondary containment pit and approximately 2 gallons sprayed onto snowpack around the pit.	Bucket loader and rake were used to scrape up contaminated snow. - Contaminated snow was placed in a dedicated contaminated snow dumpster at the MCC Fuel Dock to be melted and re-used for freeze protect fluid.		Camlock lock wires broke and valve worked its way open due to pressure and pump vibration. Approximately 4 gallons of diesel discharged into the secondary containment pit and approximately 2 gallons sprayed onto snowpack around the pit.
1/31/94	1994-IR-88285	Santa Fe Pad	Diesel	6.00	At 1700 hrs. BP Environmental notified HCC of a diesel spill at Sante Fe Pad. Trucks and equipment in the area had spread the contaminant beyond the original contamination sites.		The contaminated material will be hauled to Arco Pad 3.	Unknown. Diesel spots were found tracked all over the pad. It is suspect that a refueler oiler was in the area, leaked some diesel, then the work force in the area continued to drive through the diesel, spreading it all over the pad.
2/22/92	1992-IR-87247	Well Pad F	Crude Oil	6.00	The sight glass was removed from hydro-cyclone until after testing operations were completed. The spill occurred during rig-down operation when lines and vessel were flushed. The contaminated snow and ice was scraped up with a bucket loader and contaminants taken to T-Pad disposal pit. Crews were cautioned about safety and environmental procedures. The responsible party was counseled.		Contaminated snow and ice taken to T-Pad disposal pit.	Sight glasswas removed from hydro-cyclone unit after testing operations were complete. Spill occurred during rig-down operation when lines and vessel were flushed.
2/2/99	1999-IR-98348	Drill Site 15	Fresh Water	6.00	Fluid Transfer/Transport: Suction valve on slop trailer that contained methanol was left open. Fluid leaked out from a camlock fitting on ARCO triplex pump.	SRT cleaned up. Shovel into cutting tank. Reuse product & dispose of gravel.	"Gravel to be sent to HWPM for shipment. Waiting for response from EPA on our ""contained in determination."""	Fluid Transfer/Transport: Suction valve on slop trailer that contained methanol was left open. Fluid leaked out from a camlock fitting on ARCO triplex pump.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/9/95	1995-IR-98592	Spine Road	MEG	6.00	"The clamp holding the lower radiator hose came off, spilling contents of truck's radiator. The engine had just been replaced."	"SRT used trimmer and blade, loaded into end dump. - SRT hauled to Pad 3 on 4/9/95."		"The clamp holding the lower radiator hose came off, spilling contents of truck's radiator. The engine had just been replaced."
2/11/99	1999-IR-98835	Drill Site 15	Fresh Water	6.00	Fluid expansion or gas bubble in coil during blowdown operation. Methanol ran out of coil while sitting on deck.	Alaska Clean Seas. Gravel to Pad 3 West Pit reuse fluid.		Fluid expansion or gas bubble in coil during blowdown operation. Methanol ran out of coil while sitting on deck.
6/1/96	1996-IR-98606	Drill Site 01	Crude Oil	6.00	O Ring failure on valve allowed crude mist to escape and contact gravel pad and nearby water in reserve pit.	Absorbent boom and pads were used to soak up the oil and a Guzzler was employed to remove all of the contaminated gravel. - Absorbs were bagged and taken to NSB incinerator. Contaminated gravel was taken to Pad 3 West Pit on 6/2/96 for future remediatio		O Ring failure on valve allowed crude mist to escape and contact gravel pad and nearby water in reserve pit.
5/27/00	2000-IR-98358	Drill Site 18	Crude Oil	6.00	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).	The spill response team was called out. Sorbents were used on the freestanding liquids. A loader was used to clean up the pad and accessible areas of the pit. Shovels and brooms were used to cleanup misted areas the loader could not reach.	The material was disposed of at the pad 3 east snow pit.	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).
5/27/00	2000-IR-98358	Drill Site 18	Methanol	6.00	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).	The spill response team was called out. Sorbents were used on the freestanding liquids. A loader was used to clean up the pad and accessible areas of the pit. Shovels and brooms were used to cleanup misted areas the loader could not reach.	The material was disposed of at the pad 3 east snow pit.	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).
3/11/95	1995-IR-98576	Oxbow Road	Diesel	6.00	"Diesel was observed on roadway, probably a leak from a moving vehicle. Responsible party is unknown."	A scratcher and loader were used to scrape up contaminated snow and gravel. - Gravel will be washed and re-used. Fluids will be re-used in well work.		"Diesel was observed on roadway, probably a leak from a moving vehicle. Responsible party is unknown."
6/19/93	1993-IR-97976	Drill Site 14	Crude Oil	6.00	Exact cause unknown. Observed residue material on gravel pad and on tundra on edge of pad.	Metis/Cleanup		Exact cause unknown. Observed residue material on gravel pad and on tundra on edge of pad.
10/19/96	1996-IR-89641	Niakuk Pad	Methanol	6.00	The hose not fully connected before opening the valve on methanol tanker during coil tubing job.		Methanol fluids reused for freeze protection on another wellwork job.	Hose not fully connected before opening the valve on methanol tanker during coil tubing job.
6/1/99	1999-IR-100919	Lisburne Production Center	Crude Oil	6.00	Hose rupture. This spill is NON REPORTABLE since chemical was in containment - NO RQ.	Swept material back in sump with vac cleaner.	LPC sump	Hose rupture. This spill is NON REPORTABLE since chemical was in containment - NO RQ.
1/31/00	2000-IR-100614	West Beach	Calcium Chloride	6.00	Loader tire picked up metal pipe which punctured tire and leaked calcium chloride.	Heavy equipment scraped up the material and placed it into an SRT dump box. The material was taken to the pad 3 east snow pit for disposal.		Loader tire picked up metal pipe which punctured tire and leaked calcium chloride.
3/11/96	1996-IR-98322	Well Pad, Roads	Diesel	6.00	A tractor trailer ran off road and material leaked from fuel vent on top of tank.	Metis/Cleanup		A tractor trailer ran off road and material leaked from fuel vent on top of tank.
6/7/93	1993-IR-97964	Drill Site 15	Diesel	6.00	Fuel tank on generator set ran over due to thermal expansion during spring thaw.	Metis/Cleanup		Fuel tank on generator set ran over due to thermal expansion during spring thaw.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/10/00	2000-IR-95109	Well Pad W	Diesel	6.00	Approximately 10 gallons of Class II diesel, used as freeze protection fluid following a rig workover, spilled from a grease fitting during wireline work on well W-36. Wireline was performing post-rig work operations to remove a RP shear valve from gas lift mandrill number 5. The rig had freeze protected the well and left fluid levels balanced between the wellbore and the annulus. An unusual element in this process was that the RP valve had not been sheared. Following rig work, the tree was serviced (on July 8) by the night-shift grease crew. This service included greasing the swab valve. The crew that performed this work used their standard procedure for testing the integrity of the fitting and verified that it would hold pressure. However, when they finished with the service procedure, they forgot to reinstall the cap. When wireline rigged up on the well, they verified zero pressure on the tubing and on the annulus. They then rigged up and ran in the hole. When they pulled the valve, a small increase in pressure was observed on the annulus. While the tool string was being pulled out of the hole, the crew noticed fluid spraying from inside the wellhouse. The crew cautiously approached the well to determine the source of the leak and determined it was coming from a grease fitting on the swab valve. Spill containment was placed to try to catch some of the fluid, however approximately 10 gallons spilled onto the cellar boards and gravel. As the tools were being pulled out of the hole, the leak subsided to a trickle. Approximately 2 minutes had elapsed since the leak began. The operator stopped the tools and his assistant was able to cap the fitting (there appeared to be a swabbing effect created by movement of the tool string). They resumed operations and pulled out of the hole. No one was injured and no equipment was damaged during this incident. BP Environmental was notified and a spill review meeting was held to discuss the incident and establish action items for prevention. This spill resulted from failure of the grease fitting to remain closed, and the absence of the fitting cap (which acts as a secondary seal).	Bobcat and hand tools were used to clean up gravel. Super sucker cleaned affected gravel in cellar.	Class 11 Gravel has been taken to Grind and Inject.	A spill review was held the same day to review procedures.
3/30/90	1990-IR-97264	Hot Water Plant	Diesel	6.00	"Unknown, suspect it sloshed out of top hatch on tanker."	YES -		"Unknown, suspect it sloshed out of top hatch on tanker."
2/11/91	1991-IR-100789	Lisburne Production Center	Crude Oil	6.00	"Ice plug thawed out, material escaped out open valve."	YES -		"Ice plug thawed out, material escaped out open valve."
5/29/92	1992-IR-97361	Central Compressor Plant	Diesel	6.00	Return line to injector on a welding truck split	Metis/Cleanup		Return line to injector on a welding truck split
6/21/91	1991-IR-97467	Seawater Injection Plant	Lube Oil	6.00	Vapors released from vent condensed onto pad.	YES -		Vapors released from vent condensed onto pad.
10/15/91	1991-IR-97557	J Pad	Methanol	6.00	Overfilled mobile tank.	YES -		Overfilled mobile tank.
1/9/91	1991-IR-97219	COTU Facility	Diesel	6.00	Overfilled tanker.	YES -		Overfilled tanker.
7/31/90	1990-IR-97062	Drill Site 05	Diesel	6.00	Leaked from valve.	YES -		Leaked from valve.
3/9/91	1991-IR-100809		Lube Oil	6.00	Engine brokedown.	YES -		Engine brokedown.
8/23/89	1989-IR-96758	Drill Site 05, Not specified	Diesel	6.00	Diesel spilled from fill line during fueling of vehicle	Not specified	Not specified	Not specified
11/3/89	1989-IR-96805	Drill Site 09, Not specified	Diesel	6.00	Ball Valve on suction line to triplex pump failed.	Not specified	Not specified	Not specified
8/25/89	1989-IR-96760	Not specified	Diesel	6.00	Fill nozzel fell out of saddle tank opening	Not specified	Not specified	Not specified
10/26/89	1989-IR-100859	Not specified	Diesel	6.00	Hose came loose from the fitting.	Not specified	Not specified	Not specified
6/12/89	1989-IR-96675	Not specified	Diesel	6.00	Nozzle fell out of gas tank port.	Not specified	Not specified	Not specified
10/7/88	1988-IR-96526	Drill Site 02, Not specified	Diesel	6.00	Pressure seal lost	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/11/00	2000-IR-95727	Well Pad M	Methanol	6.00	Well M-17, 1" weld-o-let nipple for bypass around lateral valve was found to be cracked and began leaking when line was filled with Methanol. Per opeator: On 12-12-00, we decided to load M-17 F/L with NEAT and pressure test it to the lateral valve. While loading the F/L with Neat, before building any pressure, the pump truck operator observed liquid leaking out of the insulation directly upstream of the lateral valve and immediately shut down the pump. I was in the well-house watching the s-riser for leaks and monitoring the pressure. The pump operator immediately reversed his pump in order to evacuate the line of fluids as much as possible to minimize the spill. We immediately put absorb under the leak and notified the Field SPOC and the lead tech. We removed the insulation from the spill area and found the 1" lateral by-pass line had a crack in the nipple at the top of the weld-o-let. The Lateral by-pass was blinded and was to remain out of service. This line had recently been removed and re-installed . It may have been damaged while it was off and staged on the pad.I estimated the spill to be 10 gallons of dirty NEAT.	Material was cleaned up using shovels and other hand tools.	E&P exempt materials were taken to pad 3.	
5/19/97	1997-IR-89094	Well Pad D	Diesel	5.50	A 5.5-gallon diesel spill was found on Well pad D behind Doyon Rig 141. The source of the spill is unknown. Control measures were taken to ensure that fuel would not migrate during runoff conditions.			A diesel spill was found on D Pad behind Doyon Rig 141. The source of the spill is unknown and is under investigation.
7/8/99	1999-IR-94081	CPS	Diesel	5.50	At 17:30 hours an employee was on the CPS pad cleaning up after recent work activities when he noticed a small drip (approximately 1 drip every five seconds) of clear fluids coming from under a 920 front end loader. After determining that the fluid was diesel fuel, he contained the drip by placing a small containment pit lined with absorbent under the loader. He then notified his supervisor, who in turn called the Vehicle Maintenance Shop and informed them of the situation. This call was made at approximately 17:45. A mechanic from the Vehicle Maintenance Shop arrived on location after their 21:00 Hrs. break and found the containment pit over flowing with diesel fuel and spilling onto the pad. The source of the spill was an degraded supply hose running from the fuel tank to the engine. The loader was not running at the time of the incident.		Non-hazardous contaminated gravel was taken to ARCO Pad 3 and absorbents to oily waste dumpster.	Cleanup complete to visual standards.
3/1/06	2006-IR-1743131	Drill Site L1, L1-01, GPMA	Hydrochloric Acid (HCL)	5.00	A cement crew rigged up equipment in compliance with Schlumberger Std 5, to pump the first stage of a coil tubing acid stimulation job on Lisburne 1-01. A pre-job safety meeting was held with cement crew, CTU crew and company representative. To begin the job, 5 bbls of KCL water was pumped to heat up the treating iron. The line was then pressure tested to 4,500 psi and held for 11 minutes while further discussion of ambient weather limitations were conducted. The ambient air temperature was -38F and there was no signs of leaks in the treating iron during this period. The CTU crew then changed out with the on coming day crew. The test pressure was bled off and crew began pumping the 15% HCL. At ~ 3.9 bbl away, the crew heard a loud noise and found that a chicksen seal off the side of the CTU had failed and was spraying fluid from the weep hole up into the air. Calls were made on the radio to shut down pumping and begin evacuating lines. Two cement crew members downwind +/- 30 ft of release and were wearing full body acid suits, acid gloves, and goggles. Due to wind direction (~ 5mph), a light misting of acid drifted down onto the crew members. The crew members were taken to the the emergency shower trailer positioned on location, PPE removed and they were decontaminated. They were then taken to MCC medical clinic as a precaution. One crew member was given OTC cream for the cheek area of his face and the other was not treated. Both were then released back to work with no restrictions. Spill Response Team was notified and was promptly on location. They estimated about 3 gals of acid spilled onto the snow covered pad and surrounding equipment.	Hand tools were used to recover the contaminated snow. Contaminated snow was put into poly drums for disposal.	Contaminated material was taken to the hazardous waste building for disposal.	Investigation Team Findings: The team could not conclusively determine the ultimate reason of the abrupt failure of the chicksen seal. The cause was either temperature/pressure related or QC issue with the seal material quality. 1) FMC engineering was contacted and this type of failure has only been known to have occured one or 2 times before. 2) Warm up period for iron was ~ 5 minutes and the pressure test (~4500 psi) was held for 11minutes. The short warm up and long pressure test could have contributed to seal failure.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/13/03	2003-IR-711448	J Pad, J pad	Hydraulic Fluid	5.00	Employee was moving snow on J pad when he noticed a hydraulic mist on the loader windshield. Employee shut down the loader and noticed a leak in the hydraulic hose. Employee drove the loader back to the DSM shop to repair the faulty hose. Dispatch was notified as well as SRT. SRT was on site an estimated the spill at 4 gallons. Cause was determined to be a hydraulic hose that had worn through. The hose was replaced and the loader was placed back in service. SRT will return in the morning to reassess the spill cleanup action.	Material was recovered with a bobcat and dump box. Some areas were recovered with hand tools.	Material was taken to T-pad for disposal	During the investigation of the spill area at about 9:15 pm, it was discovered that part of the spill had blown off pad. At that time it was determined that immediate notifications needed to be made. The oil that had blown off the pad is on top of the snow and did not come into contact with the tundra. Under BP's reporting guidlines, this event did not require NRC or NSB notifications. The notifications were made as a precaution untill further investigations could be made.
3/12/06	2006-IR-1757487	Drill Site 16, DS16 well 21, FS2/COTU	Diesel	5.00	At approximately midnight on the 13th, the DS operator at DS 16 discovered aleaking cosasco valve and called the CIC department to dispatch the monitoring crew to replace it. After shift change the following morning the valve was pressure tested at 5000 psi for 10 minutes with no leakage. When disassembled, all parts were in new condition showing no damage.	The well house was removed and a super sucker and hand tools were used to recover the contaminated gravel.	Contaminated gravel was taken to G&I for disposal.	This spill was verbally reported as 2 bbl (estimate). When the operator had checked the well the leak was coming out as a steady stream of fluid and he immediately stopped the leak. It was unknown how long the leak had been leaking so the volume estimate was based on the flow of the leak. Once the well house was removed and the snow surrounding it, only a 5 square foot area was contaminated.
5/28/04	2004-IR-918810	U-21 (EOA Building), West corner of Pad 9, Non Process Area	Hydraulic Fluid	5.00	CONAM is submitting this report to document a hydraulic fluid leak from hose on Water Tanker 34-004 that had been staged, intended for surplus, for 11/2 years on Pad 9. Containment was in place, but became inefficient to protect the environment due to elements of high winds and blowing snow though out the Winter. The hydraulic fluid leaked onto the Pad 9 surface during 2004 break up. At the beginning of storm water run off, a small sheen appeared on the ice layer above the tundra. It ran into a drainage ditch and some hydraulic fluid and sheen drained onto the tundra.	Contaminated gravel was recovered with a bobcat and dumpbox. The contaminated snow was recovered with a super sucker. Snow and sheen off pad was recovered with a vac truck as it melted.	Contaminated snow was taken to T-pad and the contaminated gravel and melted snow was taken to Pad-3 for disposal.	Investigation team has been formed and action items will be assigned upon completion of the investigation. Investigation Members Mark Pokorny NSU Roads,Pads & Remediation TL Bryan Collver BP Environmental Advisor Charlie Howell CONAM Project Manager Mack Masters CONAM Safety Vic Richart SRT
7/18/04	2004-IR-980876	C Pad, Cpad yard chemical storage dock, Non Process Area	Petroleum Solvent	5.00	During a routine yard inspection 5 five gallon pails of concrete form release agent were discovered leaking. Corrosion had caused the bottom chime of the pails to slowly leak. The chemical had leached into the plywood box they were sitting in, and the storage dock the box was sitting on. A small amount of the chemical appeared to be in the secondary containment under the storage dock.	SRT put pails in overpack drum, secondary containment fluids were recovered with a vac truck for disposal.	The material put into the overpack drum will be disposed as hazardous waste and the recovered fluids from the containment were taken to Pad-3 for disposal.	****NOTE**** Material released is not a petroleum solvent, rather it contains petroleum hydrocarbons, mineral spirits, xylene etc. Petroleum Solvents is the closest fit for type of material released... BD X5999 7/19/04
8/12/02	2002-IR-286867	Spine Road, MCC Stump Lake	MEG	5.00	On 8/12/02 at approximately 01:45 while in route from the Hot Water Plant to the MCC lake, a hose on a Kenworth tractor came loose from the engine releasing glycol to the road surface. The driver became aware of the problem when he saw steam coming from the engine compartment. He responded by quickly and safely pulling off the road onto the gravel pad in the vacinity of the MCC lake. He then placed portable dikes under the engine compartment and notified the appropriate parties. SRT was contacted and clean up efforts have begun. The released product was contained to the road surface and the gravel pad.	Glycol was spilled to the Chip seal, No cleanup was done	None.	John Dixon was shown the affected area, and it was detemined at that time, that the Glycol could not be picked up with sorbents, and Burning would only melt the chip seal, Spill was left to degrade naturally.
2/27/02	2002-IR-175098	Well Pad N, N Pad	Hydraulic Fluid	5.00	Unknown source- Hydraulic oil spilled from a piece of heavy equipment	The contaminated snow and hydraulic oil has been removed from the pad using a loader then hauled for disposal in a dump truck.	Pad 3	Source unknown. Called in by pad operator. Pad operator had no work going on in area that day. There is an ice road project off of N pad but it is unclear if this spill is associated with that project

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/3/03	2003-IR-700079	Well Pad X, Outside X-Pad test separator dump pit.	Crude Oil	5.00	There was a spill from X-Pad test separator when rupture disk blew out as a result of GC-3 LPS shutdown.	The contaminated snow on the tundra has been removed with shovels/brooms, placed into snowmachine trailers and transported to pad area. Once snow was on the pad it was loaded into dump trucks and hauled to Grind and Inject disposal facility, as per the clean up and disposal plan authorized by ADEC.	Grind & Inject Facility	Due to gas venting in area spill technicians were unable to access spill until it was deemed safe to do so and situation was under control approximately 8 hours after internal notifications were made.
4/28/01	2001-IR-101427	Well Pad F	Crude Oil	5.00	It apperars fluid collected in the secondary liner , sloshed out when the trailer was moved. The spill was cleaned up , operations staff and well work folks notifed to inusure lined on tank is empty prior to moving tank in the future.while attempting to move a class 2 bleed trailer the employee noticed flid was leaking out of the secondary containment near the back of the trailer. It is unknown if the trailer was overfilled. Several areas were affected when liquid spilled as the trailer was moved on the pad. It is unclear who is responsible and exactly what material was spilled.It appears likely , snow melt mixed with well fluids. Aprox volume was 5 gallons	The fluid in the trailer containment was removed with a hand pump and placed back in the tank. The material on the ground was cleaned up with a loader, dump truck and hand tools.	Snow and gravel will be taken to Pad-3 disposal Facility for Class II disposal.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300. Spill was called in to AK State Trooper (ADEC After Hours Spill Line) @ 11:55 a.m.
12/23/01	2001-IR-147549	Drill Site 15, DS #15/well #15	Crude Oil	5.00	While conducting routine inspections of wells, the Drill Site 15 operator discovered a pinhole leak on the S-riser of well #15. The operator called for assistants from the other FS-3 area Drill Site operators and secured the well and de-pressured the flow line. Well 15 is used to provide source gas for the cyclone separator to allow gas lift operations at Drill Site 15. The S-Riser leak is located within the weld neck flange to 6” X 8” reducer at the 5:00 o’clock position.	De-pressured well and removed well house. Material in well cellar recovered with loader and hand tools. Material on inside walls will be removed with pressure washer.	22 cu. yards of material transported to Pad 3 for disposal.	The containment area that the well house was DECON'd in was broke down, and 60 yds. of snow, and remaining contaminated material was brought to Pad 3 Via Dump box.
5/27/05	2005-IR-1385088	L-2, L2-11 well house, GPMA	Crude Oil	5.00	During routine well checks, it was discovered that the hydraulic drum in L2-11 wellhouse was full and had overflowed.	Contaminated snow and ice was recovered with hand tools and the remaining oil in the drum was collected with a vac truck.	Contaminated material was taken to G&I for disposal.	This is an amended report to correct the actual location of the spill. The spill occurred at L-2 well 11 witch is run by the Drill Site 18 operator.
6/7/92	1992-IR-87228	PE Pad	Hydraulic Fluid	5.00	While filling the hydraulic fluid on the truck, the driver was called on the radio and forgot to shut off the filler hose and overfilled the tank. All contaminants were scraped up with shovels and a bucket loader. All contaminants were hauled to the snow melter at A3W2 for flushing. The crew was spoken to regarding attentiveness and pit liner usage.		All contaminants were hauled to the snow melter at A3/W2 for flushing.	While filling the hydraulic fluid on the truck, the driver was called on the radio, and forgot to shut off filler hose and overfilled the tank.
9/26/04	2004-IR-1066906	Well Pad H, Well H-11, GC2/SAT	Diesel	5.00	Diesel leaked out of well flutes during arctic pack flush. The DHD tech had pressured the OA to 2000 psi and bleed off and then repressured the well and went to make log entries. When he returned, the diesel was bubbling out of the well flutes. All notifications were made and spill review held that evening with DHD crew.	Contaminated gravel was removed from well cellar by shoveling into oily waste bags for transport. Absorbent material was used to recover free standing liquid in cellar.	All of the contaminated gravel will be taken to Grind and Inject facility for disposal. All contaminated absorbent material will be taken to an NSB oily waste dumpster.	The well was inspected by Greg Guild and Allison Ericson on 10-9-04 and found no visable leaks. The initial report was sent in on 9-27-04.
4/8/03	2003-IR-482683	C Pad, c-pad eoa	Seawater	5.00	FINDINGS: Loading Corrosion Inhibitor, 6.8 bls, when parked on about a 3% grade, with an estimated 283 bls on the truck. Sucked air into tank filling the oil savers and accumulator. After trying to drain the tanks, built up pressure to help blow down tanks. After tanks were blown dry, pressure was released and water was expelled out the blow down pipe.	Material was recovered with a loader and placed into a dump box for disposal.	Material was taken to T-pad for disposal.	grade at loading area causes driver to park at an approximate 3% angle causing vac truck to "cork" resulting in the blow by
6/26/02	2002-IR-257548	PM-2, PM #2, dock #3.	Hydraulic Fluid	5.00	While conducting maintenance on crane a hydraulic fitting failed resulting in product being released onto the gravel pad.	Recovered material with hand tools and absorbents. Materials were placed into appropriate containers for disposal at Pad 3.	1 cubic yard of material taken to Pad 3 for disposal.	Initial report filed on 6/27/02. Report filed by SRT for Crowley Marine. Crowley unable to access traction at this time.
1/19/07	2007-IR-2127837	PM-2, Point McIntyre 2 Pad, GPMA	Diesel	5.00	AIC had equipment staged on PM2 pad to work on the Nstar ice road. A spolt of diesel was identified near the AIC equipment on the pad but no specific cause was identified. The release was reported to the spill reporting number immediately upon identification.	Heavy equipment was used to remove contaminated snow / ice from pad surface, and a trimmer will be used to remove contaminated gravel.	Contaminated snow / ice will be melted and sent to GPB facilities for hydrocarbon recycle. Gravel will be brought to pad 3 for storage and future remediation.	NOTE: This is the Final Report. Fluids went to GC 2 for hydrocarbon recycle. Gravel was brought to pad 3 for disposal.
3/23/01	2001-IR-101073	GC-2 Pad	Hydraulic Fluid	5.00	The manlift was being moved out to skid 408 to make some outside repairs when the hydraulic line up under the turntable failed, spilling hydraulic oil onto the gravel pad.	Material was scratched up with loader and shoveled into oily waste bags.	Material will be taken to Pad-3 for disposal.	This information is being provided to ADEC to fulfill the spill notification requirements under 18 AAC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/11/07	2007-IR-2154409	Drill Site L1, Approximately 10 feet north of VSM 85+91B which is located between L1 and L2., GPMA	Hydraulic Fluid	5.00	During normal operations, operator adjusted counterweight on Veco rental sideboom #600-731. The counterweight relaxed after adjustment, operator inspected machine and found a release of hydraulic fluid to suspended containment. Approximately 1 cup escaped to ice road.	Hand tools were used to recover the contaminated ice.	The contaminated ice will be taken to T-pad for storage and future claas 1 disposal.	Immediate notifications were made. This is an amended report for the disposal of the contaminated snow.
3/25/01	2001-IR-101106	NW Eileen	Diesel	5.00	Fuel operator was refueling vehicles and equipment on the pipeline right of way between spine road and “L Pad”. Fueler began fueling a welding truck manually with proper containment in place when he noticed fuel spraying out instead of going in the fuel tank. He immediately stopped pumping, contacted HCC Spill Response and HSE Rep. HSE Rep. made proper notifications and assisted in the marking of the spill. ACS Tech. responded to scene and estimated 5 gallons of diesel impacted the pipeline right of way. HCC Mechanic discovered screws missing attaching the fuel spout to the vehicle’s frame. Vehicle was repaired and put back in service. The complete area has been cleaned under the direction of the ACS Tech. and disposed of as per HCC procedures.	Hand tools, oily waste bags, sorbent, loader, and dumptruck were used to clean up the contaminated snow and ice.	Contaminated snow and ice will be reused. Sorbents disposed of into approved oily waste dumpster.	This information is being provided to ADEC to fulfill spill notification requirements under 18 ACC 75.300.
4/24/06	2006-IR-1806871	Drill Site 18, 18L2-13 F/L behind Mod. 4932, FS1/SIP/STP	Methanol	5.00	Found tap blind leaking from plug on F/L just behind Mod. 4932. Notified SRT. Stopped leak by tightening plug.	Contaminated snow was shoveled up and placed into oily waste bags for disposal. Contaminated gravel was recovered with a super sucker.	Contaminated material went to G&I for disposal.	Immediate notifications were made. A composite smple of the area was taken to confirm the cleanup.
8/15/06	2006-IR-1943263	Cold Storage Pad/Bldg, Cold Storage Pad Whse Floor (concrete), Non Process Area	Sulfuric Acid	5.00	While unloading Carlile, the employee poked a hole in a battery. What happened was, the employee was trying to put a pallet of batteries between another pallet of batteries on one side and a pallet consisting of flanges on the other. When putting the battery in, it caught on the pallet on the left. With a spotter present the employee attempted to put the pallet back in location and poked the battery in the back. The employee then sat the battery down that was on the forks. Then pulled the battery out that was leaking. Then put it in a drip dike to contain. Called immediate supervisor and then the non-emergency spill line was called.	The material was neutralized using soda ash. Brooms and Shovels were used to clean up affected concrete floor.	The battery, wooden pallet, cardboard packing and PPE were packaged in a plastic drum and taken to the GPB waste coordinator for haz waste disposal.	The verbal notification was made by the GPB Environ Advisor on 08/15/06, at approxmately 1400 hours.
4/10/01	2001-IR-101204	Well Pad X	Corrosion Inhibitor	5.00	The X-Pad Production Operator discovered a chemical leak in the well house of X-27. He contacted the Chemical Operator to request assistance in containing the leak and determining the leak source. The Chemical Operator contacted Supervision and Safety to begin the reporting process and the spill was reported. The chemical system was isolated at X-27 and initial investigation begun. Cause of leak appears to be due to base plate seal failure on the chemical injection control valve. Spill volume is greater than 1 gallon but accurate measure will not be available until clean-up efforts are underway.	Shovels were used to remove contaminated gravel and sorbent/rags with cleaner were used to clean affected well house walls.	Gravel was taken to Pad West Pit. Sorbent and rags were placed in oily waste dumpster.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
7/11/01	2001-IR-54081	GC-2 Pad, GC2 Pad	Diesel	5.00	Contractor vehicle fuel filter lid was left loose at maintenance shop and created a 5 gal diesel spill on GC2 pad.	The gravel was removed using a loader and hand tools.	6 yards of gravel was recovered and taken to Pad 3 West Pit.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
5/30/01	2001-IR-101494	Well Pad Z	Diesel	5.00	Z-Pad Operator found an unknown spill while making his pad rounds. The leak was under snow pack and warm weather melted area and exposed leak site. Z-Pad has had many different companies doing work this winter season and cannot determine root cause.	All the contaminated materials were removed using shovels, loader, and dump truck.	All the material was taken to Pad 3 disposal facility.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
5/2/01	2001-IR-101356	CWTF/ CSTF	Sewage	5.00	Operator was off loading domestic waste water at the CSTF. A pump failure in the sewage collection vacuum truck caused the vacuum hose to depressure. Operator assumed hose was empty based on the pressure gauge reading zero and failed to check weight of hose to verify that it was empty before disconnecting. Operator disconnected hose full of domestic waste water spilling 5 gallons into contaiment. A portion of the 5 gallons overflowed into surrounding snow.	Hand tools were used to clean affected snow covered gravel pad.	The material was put back into the treatment plant.	This information is being provided to fulfill the spill notification requirments under 18 ACC75.300
3/18/07	2007-IR-2193131	GC-2, Skid 402 corrosion inhibitor pump., GC2/SAT	Corrosion Inhibitor	5.00	Discharge head on corrosion inhibitor pump failed causing about a 5 gallon spill.	A hand pump was used to remove standing liquids. Sorbent materials were used to clean the rest of the containment area.	The liquids were put back into the system and the sorbents were placed into an approved NSB oily waste dumpster.	The initial verbal notification was made on 03/18/07 by the acting environmental advisor at 0610.
10/16/04	2004-IR-1092268	Surfcoat Pad, NW corner of G & I/Surfcoat Pad, Non Process Area	Diesel	5.00	The field fueler discovered an approximate 40 square foot area covered with downhole fluids during his normal rounds. Investigation revealed that the fluid came from tri-plex pump #533. Further investigation revealed that the spill point has an unknown cause. The pump was pulled out of service and inspected. A spill review meeting was conviened and yielded no conclusive results as to who was responsible for the spill. The incident review team consisted of wells support, HSE, SRT, Conam and BP personnel.	Material was confined to snow/ice on pad. The material and snow and ice was scratched up, loaded in a dump truck. Manifest to Grind and Inject for disposal	Contaminated material was taken to G&I for disposal.	The spilled material was down hole fluids that contained small amounts of crude oil and methanol.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/27/03	2003-IR-632463	Drill Site 07, Drill site 07 relief pit	Crude Oil	5.00	While depressuring test separator a slug of crude made it to the relief pit and created a spray that in turn was carried by the wind onto the pad outside of the relief pit. Current procedures were followed.	Material was recovered with a bobcat and hand tools. The area on tundra was iced over, so the contaminated ice was scraped completely clean. The tank inside the pit was wipe down with soap and rags.	Material was taken to G&I for disposal.	Immediate notifications were made to the appropriate agencies. *Revised preventative action*
6/15/06	2006-IR-1871738	VMS Building, In front of the VMS building on the pad and in the tundra water impoundment , Non Process Area	Hydraulic Fluid	5.00	While changing tractors under water trailer #68-502, an employee inadvertently connected the hydraulic lines incorrectly causing a hose to be over pressured and the fitting to seperate from the hose at the crimp.	A loader was used to remove affected gravel and sorbent boom was used to recover sheen on impoundment.	The gravel was taken to Pad 3 disposal facility and the sorbent material was taken to an approved oily waste dumpster.	The verbal notification was made by the GPB environmental advisor at approximately 8:55 PM.
6/3/03	2003-IR-527490	Well Pad B, B-17 wellhouse	Crude Oil	5.00	During the safe-out for B-Pad to perform work during the GC-3 shutdown, bleeds were established at the tree caps to isolate downhole energy from the work location. The wing valve leaked by on well B-17. Five gallons leaked out through the tree cap bleed. This well had an expense rig workover performed in May 2003. After the job, the well was freeze protected with dead crude oil and a spear of methanol.	Fluids have been vacuumed out of the well cellar employing a vacuum truck.	Recovered fluids have been taken to Pad-3 for approved disposal.	Initial notification of this spill was provided verbally @ or about 1300 hrs on 6/3/03
4/10/02	2002-IR-200272	Drill Site 12, At the Klondike Rig located at Drill Site 12 well 35 in Prudhoe Bay Alaska.	Methanol	5.00	At approx 03:20 hours, on 04-10-02, at DS 12 well #35 a leak occurred from a hammer union connection. The crew was conducting a high pressure test of the hard line system. When the pressure reached 4000psi a seal failed which resulted in methanol being spilled to the snow covered gravel pad. The Well Operations Supervisor and Spill Response Technician were notified of the incident. The Spill Response Technician estimated approximatley 5 gallons of methanol had been released to the pad. There were no injuries as a result of this incident.	Recovered material with loader/hand tools and placed into appropriate disposal container.	8 cu. yrds of class 2 material disposed of at G&I.	Immediate notifications made to ADEC and ADNR. Initial report submitted on 4/10/02
12/29/02	2002-IR-404647	Drill Site 09, DS 9 # 40	Methanol	5.00	At 1400 slickline crew arrived on location (9-40), conducted a Job site safety meeting & discussed potential hazards. Once Lubricator was made up to well head the crew rigged up the tri-plex, methanol source trailer, & bleed trailer. 1716 began pressure test, pumping methanol into lubricator. Tri-plex quit running, after some troubleshooting & restarting tri-plex the crew resumed pumping operations. 1747 lost o'ring seal at well head connection. Pumping was shut down immediately & bleed hose was opened to bleed trailer. Slickline supervisor, BP supervisor, SRT, DSO, & security was notified. Methanol was cleaned off of the tree & out of the spill containment devices & placed in oily waste bags. 1900 SRT arrived on location & estimated release at 5 gallons. SRT collected contaminated material and departed location. Upon further investigation while removing the lubricator from the well head it was discovered the quick union was not fully made up. Possibly due to debris or ice in the threads.	Fluid was soaked up with sorbent. Contaminated gravel removed from cellar with hand tools and placed into container for disposal.	Sorbent as well as gravel will be shipped off slope as Hazwaste.	Notifications were made to appropriate Agencies. Initially reported on 12/29/02
2/15/01	2001-IR-100535	Well Pad G	Methanol	5.00	A Dowell Schlumberger crew was conducting coil tubing operations at G-Pad, well #14, when approximately 5 gallons of methanol leaked from the coil. It was estimated that 3 gallons of fluid was contained on the deck and in the sump of the unit. The remaining 2 gallons of fluid was blown by high wind onto the pad between the CTU and wellhouse. The CTU crew had drained the coil tubing and lubricator and then rigged off the wellhead to change out their tool string. When the tools were removed from the coil tubing, fluids were drained into a buched. The crew made up a set of jars and an accelerator to the coil tubing and then began a pressure test. The pressure test was unsucessful due to the pin connection between the jars and accelerator not matching up. The crew removed the tool and attempted to install a crossover, however the threads were cut wrong. The crew loaded the tools into a truck and taken back to the shop for replacement. The end of the coil tubing was raise approximatley 10 feet of the unit's deck and trollied back in order to work off the catwalk when the new tools arrived on location. Approximatley 20 minutes had elapsed since removing the jars and accelerator and no fluids had escaped from the coil tubing. The crew isolated the methanol by closing the valve on the methanol tank and the valve upstream of the CTU pump. While waiting on the new tools to arrive, the crew went into the unit to take a warm up break. The ambient temperature was +20 degrees F. with a wind speed of	The back of the coil tubing unit was wiped off using sorbent material and rags. The contaminated snow and gravel was cleaned up using a loader and hand tools.	The rags and gravel are being handled as hazardous waste. The contaminated snow was added to BP's recycle accumulation bin for freeze protect fluids.	Crews on scene wiped down back of coil tubing unit immediately after spill.
9/10/01	2001-IR-115904	Surfcoat Pad, Surfcoat well #3	Seawater	5.00	A guage bleed valve, on well head #3, was left in the open position. The well is used to inject slurry from the G&I plant. After being down for pipeline replacement, the operators were attempting to bring the three wells on line. Once pressure was added to the system, the lone operator checked the functioning of well #1 and was in the process of working his way to well #3. Upon arriving at well #3, it was noticed that the guage bleed valve was spraying seawater all over the inside of the well house. Some of the seawater had over flowed onto the pad by the time the operator had got to that position.	Removed contaminated gravel with a bobcat and dumpbox.	2 yards of contaminated gravel was taken to pad-3.	Troopers were notified due the fact it was after hours for DEC offices.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/16/06	2006-IR-1762102	PM-2, Well #1, Point Mac II, GPMA	Sodium Bromide	5.00	A vac truck loaded 85 bbls of heated fresh water, then loaded 91 gallons of SAFE LUBE additive and traveled to PM-2 Well #1. He connected the hose to the bottom fill line, then built up a vac in the trailer, and took on 175 bbls of 1% KCL. He mixed the load with the agitator for about an hour, then loaded into the bottom valve. When the vac trailer was empty, the vac hose jumped, and he closed the U/R tank valve. The tank burped foam out of the top of the tank, which ran down the side of the tank, with some landing on the driver and onto the pad. The result was an approximate 12¿ X 10¿ are of foam. Appropriate notifications were made.	Loader, and hand tools were used to remove material.	Material was brought to Pad for disopsal.	Note:This substance was 1% KCL with Safe Lube (slickum) added.
8/18/04	2004-IR-1021878	Checkpoint - Central, Central Check Point, Non Process Area	Sewage	5.00	At approximately 0610 am checkpoint personnel noted clear water leaking to the ground from the bathroom area. Checkpoint personnel called 5700 and reported approximately 5 gallons of water had leaked from the walls. No color or odor was noted. The flapper valve on the toilet failed to close and the sewage holding tank eventually filled. The high level alarm on the sewage tank also failed and the toilet over-flowed with clear water. A Vac-truck emptied the holding tank and the alarm system is scheduled for repair. Alarm system repaired 8/20/04.	Contaminated gravel was recovered with a bobcat and placed into a dump box for disposal.	The contaminated material was taken to Pad-3 for disposal.	After the cleanup, the contaminated area was treated with lime.
5/27/01	2001-IR-101477	Drill Site 16	Fresh Water	5.00	A Coil Tubing Unit and pump truck were on location for an acid stimulation job on well 16-5. The employees made up hard line from the pump truck to CT unit and started to flush the line to prepare for pressure test. The fitting closest to the pump was not hammered tight and the employee assigned to check connections did not understood he was the one assigned to this task. He assumed somebody else did. When pumping began at the minimum rate, the employee monitoring the line witnessed a cloud of steam coming out of the connection and shut the job down. Secondary containement was used but the spray had run past the dike and 5 gallons of fluid (NH4Cl) were spilled onto the pad. Appropriate supervision, SRT was notified immediately and responded for cleanup and disposal of the contaminated snow and gravel.	Used scrapers and shovels to pickup gross contamination. Bobcat with scrather used to scrape area after completion of well work.	Pad 3 East Pit (per Kym Dixon)	This information is being provided to ADEC as per 18 AAC 75.300
3/2/03	2003-IR-448046	PM-1, Pt. Mac 1	Methanol	5.00	Slickline crew made a run in well P1-23 and hit ice at 668'. They pulled their tools out of the well, bled down the lubricator, and changed tools out. The lubricator was stabbed back on to the tree and pressured up w/ 500 psi of gas to seat all o-rings. They bled off the gas pressure and left the needle valve to the bleed tank open while standing by for Little Red Services to pump methanol. When LRS arrived on location, they held a pre-job safety meeting w/ HES. Topics included risks pressure testing, staying away from the line while pumping, etc. LRS rigged up, pressure tested their line and told the slickline operator they were ready to pump downhole. The slickline operator agreed thinking his guys were at the tree with LRS. (they were actually checking the pick up & mast truck) Due to the confusion, LRS opened the block valve on the pump-in sub, assumed all needle valves were closed, and the swab valve was open. LRS pumped 20 bbls of methanol and called the operator to run in the well. LRS went to check the tree and upon returning to the pump truck, they noticed that the bleed trailer spotted next to their pump truck had overfilled. The LRS employee located and closed the needle valve on the bleed trailer and the pressure on the pump truck went from 1600# to 3000#. LRS informed the slickline operator of the pressure spike & he stopped his tools while still in the lubricator and pulled back up to the stuffing box. Everyone then responded to the spill, placing absorb and additional secondary containment under the bleed trailer. The slickline assistant went to the wellhead to close the swab valve and discovered it was already shut. The assistant assumed that LRS had closed the swab valve which after further investigation was found to have never been opened during the pumping operation. BP representatives, SRT, HES supervisor & LRS supervisor were notified immediately.	Bobcat, and dump box were used to remove material from site.	Matreial was brought to G&I for disposal.	Notifications were made to agencies. This is the Final Report.
1/29/99	1999-IR-93426	Well Pad, Roads	Lube Oil	5.00	Between shifts, a Hithachi 550 track hoe was idling (winter procedure). For unknown reasons, the engine compartment caught on fire. The HSE specialist on scene immediately called BP Security who then dispatched the ERT. The fire was put out with the use of four twenty pound dry chemical extinguishers by AIC employees prior to the arrival of the response team. The equipment had been parked over containment, but during the time the fire was being faught the containment was moved to facilitate safety footing. Approximately 8 gallons of engine oil/coolant was spilled on the ice. The spill was immedately addressed and upon movement of the machine back to the AIC shop, the remainder of the spill was cleaned up. All contaminants removed to the AIC shop in Deadhorse for disposal. It is unknown at this time as to the cause of the fire, but after factory representatives advice causal factors will be added to the report.			Report called in to National Response Center (Report # 472350)

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/17/01	2001-IR-101256	Drill Site 01	Crude Oil	5.00	During a planned shutdown at Drill Site #1 a spill was discovered on the south side of the artificial lift module. The source of the spill was the vent line for relieving pressure off of the Daniels meters in the artificial lift module. The original design had the vent plumbed to atmosphere. A 55 gallon barrel had been placed under the pipe vent for secondary containment in the event liquid contamination found its way into the A/L system. The investigation revealed the spill had accumulated over time. The barrel was not secured and appeared to have been blown over by the wind some time in the past. The location of the barrel was such that it was not visible during regular rounds and was not noted to be out of place.	SRT techs used hand tools to recover contaminated snow and gravel and place in oily waste bags.	Contaminated snow taken to Pad 3 East Pit. Contaminated gravel taken to G&I oily waste disposal pit.	This information is being provided to ADEC per 18 AAC 75.300
6/7/01	2001-IR-101549	Drill Site 18	Crude Oil	5.00	Unknown source of oil was found floating under the well house at drill site 18 well 33. Approximately 5 gallons.	Recover with loader, vac truck and hand tools and transport to pad 3/G&I for disposal.	40 bbls of melt water taken to pad 3. 12 cu. yrds of lightly contaminated water/gravel taken to G&I	This information is being provided to ADEC per 18 AAC 75.300
4/8/01	2001-IR-101189	Drill Site 05	Hydraulic Fluid	5.00	The spinner motor on the Dosco miner developed a hydraulic leak during operations in the pit at DS 5. A 5 gallon hydraulic oil spill resulted. SRT was contacted, management was contacted. Spill was cleaned up.	Sorbents and shovels. A loader and bucket was used to pick up the the oiled gravel.	Sorbents were disposed as oily waste and 5 cubic yards of gravel went to pad-3.	This information is being provided to ADEC per 18 AAC 75.300
5/20/05	2005-IR-1376849	GC-2, GC2/SAT	Crude Oil	5.00	During a flaring event, Operator observed liquid coming out the #3 vertical flare tip. The flame had gone out. He called the control room and had them sound the evacuation alarm and call out ERT. Working with the Lead Operator he called Control room operator and had them stage open number #4 vertical and the liquid subsided back into tip and relit from the pilots. After confirming situation was stable ERT was stood down.	Shovels were used to clean affected snow. Snow was then transported by Snowmachines to a loader and dump truck.	Material was taken to T-pad storage pit.	Verbal notification was made 05/20/05 at approximately 1320.
3/16/01	2001-IR-101031	Drill Site 17	Sewage	5.00	At 20:30 Hrs, Kevin Daniel, tour spill champion, noticed a discolorization in the snow under the rig camp. He immediately notified the Toolpusher and BP Drilling Rep.while directing the roustabouts to place drip pads to contain the fluid. It was immediately determined that the only source for the spill could be the gray/black water storage tank and associated lines. A truck was called to suck down the tank;arriving on location at 20;55 Hrs. The tank was sucked dry,eliminating further leakage.	Used loader with scratcher and bucket to scape pad and recover frozen sewage and place in dump truck for transport to Pad 3.	Pad 3 East Pit.	This information is being provided to ADEC per 18 AAC 75.300
7/5/01	2001-IR-101753	Warm Storage	Hydraulic Fluid	5.00	We were attached to an unfamiliar trailer. When we pulled out we realized that the landing gear was not all the way down on the trailer. When we went to back up, we had the 5th wheel locked and that caused the 5th wheel pin on the trailer to knock the hydraulic fitting off.	Recovered with hand tools/bobcat and placed into dumpbox for disposal	3 cy yds lightly contaminated material. Taken to pad 3 for disposal.	This information is being provided to ADEC per 18AAC75.300
9/25/02	2002-IR-321904	Ball Mill Facility, Grind & Inject Plant / Drill Site 4	Seawater	5.00	A catch basin containing seawater was being transported over uneven ground. As the operator made a left turn five gallons sloshed out of basin and onto containment apron one half of a gallon trickled to the pad adjacent to the containment. SRT stated volume and conducted cleanup.	Recovered material inside containment with absorbents. Material spilled to gravel pad recovered with bobcat loader and placed into dump box for disposal.	1 cubic yard of material taken to G&I for disposal. Absorbents disposed of as oily waste.	Immediate notifications made to the appropriate agencies.
5/11/03	2003-IR-508339	U-05 (EOA Building), U-5 cold storage yard.	Sewage	5.00	While transfering the water from the fresh water holding tank to the septic holding tank, the septic holding tank over filled and released the overflow through the vent.The fresh water tank is slightly larger than the septic holding tank.	Recovered material with hand tools and placed into container for disposal at T-pad.	Material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies.
2/28/01	2001-IR-100951	Drill Site L2, LPC north side of module.	Sewage	5.00	Block Valve on sewer line drain leaked. Causing sewer water to drip onto gravel pad. Note: This LCIR is replacing a prior one that needed to be deleated because incident information had to be changed from leak to spill.	Used hand tools, and bobcat with scratcher and bucket to scrape gravel pad.	Pad 3 East Pit (Domestic Waste Water Exemption)	Spill has been 100% cleaned up, and disposal completed.
7/30/02	2002-IR-277827	COTU Facility, COTU Control Room sewage line.	Sewage	5.00	Line blockage on toilet and upon tracing line to snake out and clear line found leaking sewage from insulated line. Removed insulation and found possible leak from wax ring on toilet. Toilet is currently decommissioned.	Lime spread to kill bacteria after leak is fixed and line replaced.	The total volume of material release was contained to liquids. Area treated with lime.	Immediate notifications made to appropriate agencies.
5/3/02	2002-IR-216352	PM-1, Between the cutting box and the the pipe shed on Nabors 2 ES	Drilling Mud	5.00	The snorkle discharge hose on the #1 conveyor trough plugged off, causing the drill mud to backup into the conveyor housing leaking out 5 gallons of drill mud in the secondary containment berm and a pint of drill mud splashing on the snow out side the berm	Removed downhole drilling fluid from snow and secondary containment berm, reused material for intended use.	Material reused for intended purpose.	Immediate notification made to appropriate agencies.
6/12/01	2001-IR-101571	COTU Facility	MEG	5.00	While making normal daily rounds, the COTU operator noticed an accumulation of glycol heating medium off the pad, between the COTU lab and #1 plant. Containment was put in place and SRT called out. Investigation indicates that aluminum tubing used to provide heat to the lab's hydrocarbon drain, had failed, spilling glycol into the insulation. The leaking glycol then found it's way out of the insulation jacket at a 90 degree bend. The tubing was isolated and the spill was cleaned up.	Vac Truck used to pick up glycol/water mixture. Universal sorbent used to absorb some glycol from area.	Pad 3	This information provided to ADEC per 18 AAC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/7/04	2004-IR-929905	Drill Site 11, DS-11 Well 5, FS2/COTU	Crude Oil	5.00	Operator was on site to vac out a return tank, after an ASRC employee had strapped the tank #051 showing 285 bbls. The ASRC employee switched the returns flow to another adjacent tank, and then assisted the operator in backing the vac unit into place. Operator then created a vac on the unit and proceeded to the rear of the unit, hooked up to the return tank and began to vac out the tank. When he was loaded, less than 290 bbls according to the gauge, he shut the valve at the tank and evacuated the 3¿ hose, unhooked from the tank and staged the hose in the hose rack. Prior to unhooking at the truck valve he again opened the load valve to evacuate the hose a second time. This is when the unit ¿burped¿ overfilling the overflow bucket allowing liquid to land on the ground. Material release was classed as 40% acid and 60% crude. Material was neutralized with soda ash while in the return tank to draw down the Ph. An added amount of soda ash was applied to the material on the ground at SRT request.	The Crude oil and acid was neutralized then it was recovered using a loader and bucket. The contaminated material was placed into a dump box for disposal.	The material was taken to G&I for disposal.	This material was 60% crude oil and 40% acid.
4/12/04	2004-IR-865250	Well Pad S, GC2/SAT	Diesel	5.00	During routine slickline operations of pulling out of hole, wire came out of rope socket when tools came into contact with the stuffing box during standard bump up operations. When the wire came out of the stuffing box well bore fluids were released spraying onto the snow covered pad. The pressure control dart was not in place. SRT, Pad operator and appropriate notifications were made. SRT estimated spilled fluids to be approximately 5 gal. Investigation and review in progress.	A loader and dump truck was used remove the contaminated snow from the pad.	The exempt material was taken to T-pad storage facility.	A spill review meeting has been scheduled.
12/3/06	2006-IR-2077877	PBOC, PBOC S-WING MECHANICAL ROOM SUMP, Non Process Area	Sewage	5.00	THE MAINTENANCE TECH WAS CALLED BY SECURITY AT 5 AM ABOUT LIQUID SPOTTED ON THE GROUND UNDER S-WING. THE TECH WENT TO THE MECHANICAL ROOM IN S-WING AND OPENED THE HATCH TO THE SUMP TANK. HE SAW THAT THE TANK WAS FULL AND HE SWITCHED THE PUMPS INTO THE "HAND" POSITION WHICH PUMPED DOWN THE TANK. HE FOUND THAT THE CONTROL VOLTAGE FUSE HAD BLOWN FOR THE FLOAT SWITCH CIRCUIT. nO REASON FOR THIS BLOWN FUSE WAS APPARENT IN HIS INVESTIGATION. HE REPLACE THE FLOATS IN THE TANK AND THE FUSE AND TESTED THE SYSTEM NUMEROUS TIMES. APPROXIMATELY 5 GALLONS OF SEWAGE HAD LEAKED OUT ONTO THE GROUND. THE SPILL HOTLINE WAS NOTIFIED.	Hand tools were used to remove contaminated material.	Material willbe brought to T pad for disposal.	ADEC Waste water was notified of release.
10/12/02	2002-IR-337834	Central Gas Facility, CGF Pad, No.end next to Mod. 4939	Natural Gas Liquid (NGL)	5.00	Low Temperature Separator (LTS) gas to liquids exchanger developed a leak to atmosphere. To stop the leak, the exchanger was isolated by shutting down the LTS train. The liquids were diverted to the Stabilizer vessel initally. Once equalized the remainder of the gas and liquid went to flare.	NGL evaporated. SRT will remove contaminated snow and gravel with Bobcat and dumpbox.	Contaminated snow, and gravel was to G&I for disposal.	This is the second, and final report.
7/30/02	2002-IR-278006	Drill Site 11, Nabores Rig 2ES on DS 11-17a	Diesel	5.00	To facilitate the skimming of diesel off the pits, a hose was tied into the cutting conveyor trough to the cutting box. The hose moved allowing transfer fluid to get between the trough and its enclosure. This allowed the fluid to run out the side wall of the pit complex. A portion of the fluid escaped containment. For reasons of safety, the pit watcher was attempting to evacuate the potentialy hazardous fluid from the pit module when spill occured.	Standing liquid recovered with absorbents. Remainder of material recovered with loader and placed into dump box for disposal.	Absorbents taken to oily waste. 14 cubic yards of material taken to T-pad for disposal.	Initial report submitted on 7/31/02.
7/30/02	2002-IR-278006	Drill Site 11, Nabores Rig 2ES on DS 11-17a	Seawater	5.00	To facilitate the skimming of diesel off the pits, a hose was tied into the cutting conveyor trough to the cutting box. The hose moved allowing transfer fluid to get between the trough and its enclosure. This allowed the fluid to run out the side wall of the pit complex. A portion of the fluid escaped containment. For reasons of safety, the pit watcher was attempting to evacuate the potentialy hazardous fluid from the pit module when spill occured.	Standing liquid recovered with absorbents. Remainder of material recovered with loader and placed into dump box for disposal.	Absorbents taken to oily waste. 14 cubic yards of material taken to T-pad for disposal.	Initial report submitted on 7/31/02.
7/14/02	2002-IR-264847	Drill Site 01, DS1 relief tank pit	Crude Oil	5.00	Unknown time and date for spill. Relief pit has overspray from tank in the immediate area, about 3 gallons according to SRT. Tank has been a concern, leaning and stressing connection for several years. Discharge into tank was great enough to blow material up to the level of the windsock above the tank.	Bobcat, Dupm box, and Super Sucker were used to remove contaminated material.	Contaminated material was brought to Pad 3 for disposal.	All Agencies were notified verbally.
4/26/02	2002-IR-272153	Flow Station 2, Gravel production pad on Drill site 4, East operating area of greater Prudhoe Bay.	Hydraulic Fluid	5.00	During spring break-up, a drill site operator discovered hydraulic fluid had been leaking from a tubing fitting for some time. Accumulated snow and ice had obscured the leak prior to spring thawing.	Bobcat loader and hand tools were used to recover the product, it was then placed into dump box for transportation.	3 cubic yards of material taken to Pad 3 for disposal.	Initial report submitted on 4/28/02.
5/8/02	2002-IR-219460	Lisburne Production Center, Under Module 4938 at LPC	Lube Oil	5.00	Condensed HC from atmospheric vents for Injection Compressor 1808 traveled down Module 4938 exterior wall and accumulated on pad. Immediately below the vent stacks there exists a section of the module with a slightly pitched roof. It appears that condensed HCs may have accumulated here and weathered. This is also a prime location for snow accumulation. Warm ambient melted the snow on the roof aiding in the transportation of the HC down the side of the Module and onto the pad.	Recovered material with Vac truck, supersucker and hand tools.	1 cubic yard of material taken to T-pad for disposal. 2 barrels of liquids and 4 cubic yards of solids taken to Pad 3 for disposal.	Initial report submitted on 5/8/02.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/22/04	2004-IR-1023322	Drill Site 11, DS-11 well 11, FS2/COTU	Corrosion Inhibitor	5.00	At DS11 well 11 the BP DS operator found a leak from a fitting installed in the corrosion inhibitor continuous injection system. DS operator notified the chemical operator, who went to location and found a leak between the Haskell check valve and the MNPT side of a swagelok fitting. SRT was notified and went to location to clean up the material.	The spill was recovered with a super sucker and hand tools.	Contaminated gravel will be stored at pad-3 for future remediation / disposal.	Immediate notifications were made.
5/3/05	2005-IR-1350871	Drill Site 17, DS-17 Reserve pit (East side), FS2/COTU	Corrosion Inhibitor	5.00	Chemical line had separated Employee discovered corrosion inhibitor under snow. A large amount of heavy snow accumulated around a chemical line that was attached to a flow line, as the flow-line moved the heavy snow did not allows the chemical line to move in tandem so the fitting at valve was stressed and began to leak slightly.	A Bobcat and hand tools were used to recover the contaminated snow.	Contaminated snow was taken to T-Pad for disposal.	Immediate notifications were made.
10/9/05	2005-IR-1574115	Drill Site 18, DS 18 # 21, FS1/SIP/STP	Methanol	5.00	During pump operations tank return valve was left open while pumping down flowline. This resulted in overflowing tank 1 onto the gravel pad. The wind was blowing approximately 25-30 mph and spread the spilled fluid across across an approximate area of 30 x 60 feet.	Loader, and dump box were used to remove material from site.	Material was brought to G&I for disposal.	Agencies were notified of release.
2/18/01	2001-IR-100541	Well Pad S	Hydraulic Fluid	5.00	A Snorkel Manlift was being used on a water wash job, when a hydraulic valve failed resulting in hydraulic fliud being released outside the hydraulic system. Resulting in approx. 5 gallons of hydraulic fluid to spill.	A loader on site cleaned affected snow covered pad.	Non hazardous material was taken to Pad 3	Spill review is being scheduled
4/26/04	2004-IR-881608	Drill Site 17, EOA DS17, FS2/COTU	Crude Oil	5.00	DS17 twin well 14/22 flow line developed a small leak due to external corrosion.	SRT notified and will provide the cleanup and disposal of waste material	sorbent to oily waste, contaminated snow & gravel will be brought to G&I for disposal.	NOTE: This is Final report
11/4/07	2007-IR-2456160	G&I Facility, Surfcote pad - GNI-04 - under sewage tank, Non Process Area	Sewage	5.00	The rig sewage tank overflowed allowing 5 gallons of material to spill onto the pad. The spill was reported and cleaned up by ACS personnel.	SRT notified and cleaned up by SRT personnel	Pad 3 - west pit.	Agencies notified.
11/1/01	2001-IR-130097	Drill Site 13, DS13, well 4	Diesel	5.00	On 11/1/01 the pad operator of drill site 13 was conducting a daily inspection. During his inspection of wellhouse 4, he smelled gas and heard gas leaking. When he opened the front door of the wellhouse he saw a mist of oil coming out of the tree. The Drill Site Operator immediately actuated the external ESD and he went up the scaffolding to check the swab valve. He found the valve opened and proceeded closing it 29 turns, which meant the valve had been left fully opened. As the Drill Site Operator was about to close the master valve, he noticed the gas leak was dying off, meaning that the leak was coming from the tree cap above the swab. He looked up and visually confirmed that the mist had died off and witnessed oil dripping through the tree cap O’ring. Once the Drill Site Operator felt the well was under control SRT and his supervisor was notified. SRT concluded that 5 gallons of diesel had been realesed to the wellhead floor. There were no injuries or damage to the tundra. .	Product was picked up with sorbants. Well head wiped down. Well house walls and floor wiped up. Contaminated gravel in well cellar was removed.	Sorbants and rags taken to oily waste dumpster for disposal. Gravel taken to G&I for disposal.	none
5/21/04	2004-IR-910230	Drill Site 12, Drill Site 12 Well 27, FS1/SIP/STP	Diesel	5.00	Crew pressure tested lubricator with deisel to 3000#. While monitoring pressure for approximately one minute the o ring on pump-in sub failed and deisel was released down the side of lubricator.	Super Sucker was used to remove contaminated material from cellar.	Contaminated material was taken to G&I for disposal.	.
2/25/01	2001-IR-100940	Well Pad C	Methanol	5.00	Halliburton crew identified a spill in front of wellhouse C-35 during their pre-job site inspection. The crew immediately reported the spill to the Well Operations Group as well as the Environmental Department. An Environmental Technician was dispatched and estimated the spilled to be 5 gallons of methanol. An investigation as to the source of the spill was conducted and it was determined that the Dowell Schlumberger Coil Tubing Unit #1 was last unit on location. The spill location corresponded to the pump position on the CTU when rigged up to the well. Dowell's spill checklist for that day could not be located and theres no back up documentation to prove that CTU crew left the location free of a spill. This spill will therefore be attributed to the coil tubing activities that were being conducted by Dowell.	Methanol contaminated snow was shoveled into drums with hand tools. Contaminated gravel was seperated and shoveled into seperate drums using hand tools.	Contaminated snow will be melted down and reused pending approval. Contaminated gravel was seperated and shoveled into seperate drums using hand tools and will be shipped offsite as hazardous waste.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/7/06	2006-IR-1824630	Field Ops Center (FOC), WOA Pad area located just west of the FOC building within the temporary diesel fueling pit., Non Process Area	Diesel	5.00	While removing snow from the temporary diesel dispensing fuel truck site located on the pad area west of the WOA FOC an approximate 5 gallon diesel fuel was discovered between the primary and secondary containment. The date of the spill is unknown. The spill was reported and cleaned up. The primary containment will be pulled up and replaced. This temporary fueling site has been a manned operation during operating hours by two other field contractor companies responsible for the vehicle and operations.	The temporary fuel dock was removed and relocated. The contaminated snow and gravel was removed using heavy equipment and hand tools.	The contaminated snow will be taken to T-Pad Storage Pit. The contaminated gravel will be taken to Pad-3. The contaminated pit liner material will be taken to an approved NSB oily waste dumpster.	
2/27/02	2002-IR-186397	COTU Facility, COTU Facility; Vessel # 79-1200	Produced Water	5.00	While making routine rounds, operator found small accumulation of hydrocarbon liquids under piping flange. Logged event in operator daily log book, and notified SRT and Environmental Advisor. Material was condensate from flare knockout drum.	Contaminated material was scraped up with the loader and placed into dump box for storage. Material was then melted and pumped off for hydrocarbon recycle.	Material was tested and found to have Benzene levels above acceptable Pad 3 limits. Material was hydrocarbon recycled and gravel was taken remediation stock pile at old airport runway.	
7/17/01	2001-IR-71437	Access Road, E Pad Access Road	Transmission Fluid	5.00	Vehicle blew a transmission filter during the Code Red Emergency	Free standing transmission fluid was removed from gravel road using absorbent pads.The contaminated gravel was removed from the road using a super sucker.	All of the contaminated absorbent pads have been disposed of in an approved oily waste dumpster. All of the contaminated gravel has been taken to Pad-3 disposal facility.	
5/2/07	2007-IR-2247810	GC-2 Pad, GC-2 PAD BY ELECTRICAL SKID, GC2/SAT	Diesel	5.00	While fueling loader 2-138, the fueler noticed fuel dripping from under the loader. He reported the spill. It was determined that a loose clamp on the fuel hose connected to the tank of the loader released approximately 5 gallons of diesel fuel while the loader was being fueled.	Hand tools were used to recover the contaminated snow. A bobcat and trimmer were used to recover the frozen contaminated gravel.	Contaminated snow will be melted down and recycled. The contaminated gravel was put into the SRT bins where it will be taken to Pad-3 for storage and future remediation.	
5/13/03	2003-IR-510361	Well Pad C, PBU-WOA C Pad	Hydraulic Fluid	5.00	Dozer #56305 experienced a hydraulic hose failure and leaked approximately 5 gallons of hydraulic fluid onto the gravel pad. SRT notified on 5/13. Unable to conduct cleanup until equipment was moved on 5/14. Hose replaced, spill cleaned up.	SRT member used a hand shovel to remove all spilled product and contaminated snow from spill area.	All recovered snow has been taken to T-Pad solid waste storage facility. Contaminated sorbents were taken to an approved North Slope Burough oily waste dumpster.	
11/13/06	2006-IR-2051052	West Dock, West Dock, Non Process Area	Diesel	5.00	On November 13, 2006 at approximately 0030, a fuel truck operator was at the West Dock staging area to fuel VECO loader #40133. Upon arriving on location the operator noticed fluid leaking from the loader onto the pad surface. The operator then called PBOC Security and reported the spill. VECO dispatch was contacted by the security personnel and all proper notifications were made. It was determined that the fluid on the pad surface was diesel leaking from a faulty fuel line. SRT responded to the spill and estimated that approximately 4-5 gallons of diesel contacted the pad surface. The contaminated material was cleaned up and disposed of by the EOA Spill Response Team.	Contaminated snow was recovered with hand tools and placed into a drum for recycle. A bobcat and trimmer was used to trim up the contaminated gravel.	The contaminated snow will be melted down and sent in for hydrocarbon recycle. The contaminated gravel was sent to Pad-3 for storage and future remediation.	
12/25/02	2002-IR-402715	Well Pad K, K-Pad	Hydraulic Fluid	5.00	While attempting to position the BOP stack during the intial nipple-up operations onto the well, both open/close hydraulic lines on the choke side HCR valve were broken off at the valve body. The "close" side line was charged at the time. The BOP stack prior to positioning was secured back away from the vertical position for rig move purposes, by 3 chains one having a come-along attached. The come-along was released and the stack moved over toward a near vertical position in a controlled manner. Unseen to the workers at the time, the stack was prevented from going completely into the vertical position by the "stem" portion of the HCR valve touching a BOP work platform. A worker went to the platform to inspect the problem. His own weight on the platform dropped it just enough for the HCR stem to clear it and allowed the BOP stack to move into the vertical position. The open/close fittings came into direct contact with edge of the platform thus breaking them off the valve body. The hydraulically charged "close" hose continued to leak hydraulic fluid until the BOP accumlator control for the HCR valve was returned to the neutral position. Hydraulic oil sprayed onto the inner walls of the rig and onto the rig mats. Some of this oil made its way off the mats and onto the gravel pad.	All of the hydraulic oil that was on the rig walls and rig mats has been wiped up with absorbent pads. The gravel on the pad has been removed with a loader and dump truck. The material in the well cellar was removed with shovels and chipping bars.	The contaminated absorbent pads have been taken to an approved NSB oily waste dumpster. The contaminated gravel has been taken to Pad-3 disposal facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/26/04	2004-IR-755458	Access Road, Between A-pad d-pad access road on ice pad , Non Process Area	Hydraulic Fluid	5.00	On 01/26/04 at approximately 16:48 Hours, 5 gallons of hydraulic oil were released to the frozen snow covered access road between A-pad and D-pad. The material was leaked from the filter system of a Maxi-Haul. The operator had just dumped a load of snow near an ice pad project when he observed a dark stain out to the side of the equipment.He positioned the bed in the full up position to relieve pressure on the system. when he got out of the truck the material had mostly stopped leaking. He placed a large drip liner under the filter area. He then notified his foreman who was near the scene. He completed other notifications to dispatch and all appropriate notifications were made. It was discovered that a failure had occured at the filter gasket area on the main hydralic tank filter.A mechanic was dispatched and some repair was completed in the field. The Maxi-Haul had the filter housing replaced at the veco shop. SRT responded and completed clean up after the Maxi-Haul was moved. Note: This IR originally showed NRC # 711626. However, determination was made that this spill did not qualify for reporting.	Free standing liquid was soaked up with absobent pads and taken to a approved NSB oily waste dumpster .Contaminated snow and ice where removed with heavy equipment, hand tools and taken to T-pad storage pit.	Free standing liquid was soaked up with absorbent pads and taken to a approved NSB oily waste dumpster .Contaminated snow and ice was taken to T -pad pit.	
4/29/07	2007-IR-2244917	Drill Site 04, Drill Site number 4 near well house 10, FS2/COTU	Diesel	5.00	The fueler pulled into DS 4 to fuel Norcon's equipment on the morning of April 29th, 2007 around 9:45 am. The fueler was fueling the gen-set on the break shack when he noticed a dark stain on the gravel. The fuelers first thought was we parked our equipment on an old spill that was showing up through the thawing/melting snow. The fueler finished filling the gen-set and then fueled the heater. The fueler then moved to fuel the parked loader, when he noticed that under the loader was a stain that looked shiny and wet. The fueler touched the gravel and smelled the fluid and it smelled like fresh diesel. The fueler contacted his supervisor and told him that he needed to report this spill. The supervisor sent a foreman to the location for an observation, while the fueler called it into the 5700 non-emergency line. Norcon's Operator General Foreman came out to check all three pieces of equipment and found no defective or busted hoses or lines. The heater was placed inside of a containment, no leaks were found inside or outside of the heater housing or inside of the secondary containment. Norcon has taken statements from the day and night shift fuelers.	Contaminated snow was shoveled up into bags. The gravel was removed with loader and dump box.	Contaminated snow melted down and sent for hydrocarbon recycle. Contaminated gravel removed to Pad-3 for storage and disposal or remediation.	
10/26/03	2003-IR-659068	Price Pad, Price Pad south approximately 200 yards from the CPW2 warehouse.	Diesel	5.00	At approximately 9:30 AM the Down Hole Pump crew discovered a fuel leak emitting from the generator room in the forward portion of the trailer. The leak had started during the night while the unit was unmanned. The secondary containment filled and the fuel leaked through the floor and outside through the secondary trailer frame plate onto the ground. At this time, the cause appears to be a chaffing of the high pressure fuel hose to the injectors (mechanics to confirm). The hose was cable tied to the fuel pump high pressure hose near the fuel filter. Notifications were in a timely manner and in accordance with policy.	Sorbents were used to clean up standing liquids in the containment area. Shovels were used to remove affected snow and a loader was used to recover contaminated gravel.	Sorbent material was placed in the NSB oily waste dumpster. The snow was put in a recycle bin. The contaminated gravel was taken to Pad 3.	
6/2/03	2003-IR-527163	Well Pad A, A-10 welhouse	Crude Oil	5.00	During the safe-out of A-Pad during the GC-3 shutdown, the tree cap bleeds were open to isolate energy from the work locations. Crude oil leaked by the block valve and out through the tree cap bleed, coating the tree and leaking some into the cellar.	Released fluids have been vacuumed out of the well cellar by a vacuum truck. The contaminated well tree was swabbed clean using sorbent pads.	Sorbent pads were taken to a NSB oily waste dumpster. Fluids recovered with the vac truck have been taken to pad-3 for approved disposal.	
3/28/05	2005-IR-1297750	Cold Storage Pad/Bldg, Cold Storage Pad , Non Process Area	Diesel	5.00	Pickup 14704 was parked and left idling at the cold storage pad at 0920 while a two man crew was working on finding material. Stored on the pad. The crew was performing a 360 walk around at around 1150 intending to break for lunch when fuel was discovered under the truck. The cause of the release of fuel was a fuel heater element that shorted out melting a sealing fitting in the fuel line.	A loader was used to remove the affected snow and gravel from the pad.	The snow and diesel will be melted and taken to GC-2 for hydrocarbon recycle. The gravel will be taken to Pad 3 disposal facility.	
9/16/07	2007-IR-2408611	Well Pad G, GPB WEST G-PAD, GC1	Hydraulic Fluid	5.00	AT 9:30 AM THE WASTE WATER VAC TRUCK DRIVER WAS HOOKED UP TO NORDIC 1 ON THE G-PAD TO VAC OFF THE SEWAGE FROM THE RIG. HE SET THE PTO AND WALKED TO THE BACK OF THE TRUCK AND NOTICED THAT THE PUMP WAS NOT WORKING. HE WAS WALKING TO THE CAB TO DISENGAGE THE PTO AND NOTICED THE HYDRAULIC FLUID LEAKING FROM A HOSE UNDER THE TRUCK. HE SHUT OFF THE PTO. HE WENT IN TO THE RIG AND NOTIFIED THEM AND THEN CALLED HIS SUPERVISOR AND THE SPILL HOTLINE. THE MECHANICS WERE CALLED TO THE PAD AND THEY SECURED THE RUPTURED HOSE AND THE TRUCK WAS THEN DRIVEN TO THE SHOP FOR REPAIR.	Absorbant pads were used to recover some of the oil. A loader and dump box were used to recover the contaminated gravel.	The contaminated absorbants were disposed as oily waste and the contaminated gravel was taken to pad-3 for storage and disposal.	
4/6/04	2004-IR-861971	Spine Road, Spine road at Pump station 1, Non Process Area	Transmission Fluid	5.00	A rollagon passing through GPB on the Spine Road lost a transmission plug resulting in spilling approximately 5 gallons of oil	Floor Dry materials were used to soak oil from hard pack road surface. A loader was used to remove the contaminated snow along side the road where the equipment pulled over.	The floor dry material was taken to approve NSB oily waste dumpster. The contaminated snow was taken to T-pad storage facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/25/06	2006-IR-1775074	Drill Site 06, DS 06 Well # 24, FS3	Diesel	5.00	During a CTU operation on DS 6-24, a heater that was spotted next to an upright tank to keep the suction valves thawed, developed a mechanical problem of some sort and diesel from the heater leaked onto the ground.	Hand tools were used to remove contaminated material.	Material is in melt drum's and will go for Hydrocarbon recycle. Melted snow and diesel went to GC-2 for hydrocarbon recycle.	
10/11/03	2003-IR-646141	Well Pad L, L pad	Hydraulic Fluid	5.00	Employee was operating a maxi-Hauler at L pad dumping dirt. Employee noticed hydraulic spray as he dumped his trailer bed. The employee immeadiately shifted the PTO out operation. The bed continued down and hydraulic fluid was sparyed until the bed came to rest. The source was found to be a faultiy hydraulic hose. About 12 gallons of hydraulic fluid contacted the pad. VECO dispatch was called and all notifications were made.	Absorbent pads were used to pick up free-standing liquid on the pad. Heavy equipment and hand tools were used to remove the remaining hydraulic oil.	Contaminated absorbent pads were taken to an approved NSB oily waste dumpster. Contaminated gravel was taken to Pad-3.	
1/16/03	2003-IR-416059	VMS Building, Cold Storage Pad, VMS	Diesel	5.00	During fueling operations at VMS yard the equipment services fueler noticed a spot on the ground approximately 10 feet from the heater he was fueling. He reported it to his supervisor and SRT was called and reponsed.	Snow was removed with shovels on top of the gravel. A Bobcat with a trimmer was used to remove contaminated gravel.	The snow was taken to the SRT hydrocarbon recycle melt tank for recycle and the gravel was taken to pad 3 disposal facility.	
5/31/03	2003-IR-525288	Well Pad A, A-18 Wellhouse	Hydraulic Fluid	5.00	The diaphragm of the A-18 high pressure switch failed releasing hydraulic fluid to the gravel.	Environmental recovered the free standing liquids with sorbents and placed the contaminated gravel into oily waste bags.	Sorbent was taken to NSB oily waste dumpster and the gravel was placed into an approved accumulation bin at Santa Fe Pad.	
2/21/04	2004-IR-811339	PBOC, PBOC east parking lot., Non Process Area	Diesel	5.00	Fuel tank vent froze causing diesel returning from the fuel pump to fill into and to overfill the other fuel tank onto the groound.	Loader, Bobcat trimmer, and dump box were used to remove contaminated material.	Gravel was brought to Pad 3 for disposal, snow was put in to tank to be melted down and will go for hydrocarbine recycle.	
7/22/06	2006-IR-1913066	Well Pad K, Start of K-Pad Access rd f/ K-pad, GC1	Hydraulic Fluid	5.00	Nordic 1 rig was moving down K-Pad access road when offdriller's side drive motor hydraulic hose parted at crimp connection	The rig was wiped down with absorbent pads. The contaminated gravel was shoveled up and place in oily waste bags for disposal.	Absorbent pads were placed in an approved NSB oily waste dumpster. The contaminated gravel will be taken to Pad-3.	
2/17/05	2005-IR-1247438	Flow Station 1, Outside Module 4932, from the seal oil vent line. , FS1/SIP/STP	Lube Oil	5.00	Discovered turbinol leaking down the outside of Module 4932. Leak appears to have come from the #2 bearing vent line piping, exhausting from the 1804 Frame 5 turbine. Some of the product has reached the gravel pad.	Sorbent was used to soak standing fluid on landing. Grating was removed deconed, and replaced. Contaminated snow was removed with a loader and dump box. The side of the module was pressure washed.	All sorbents went to oily waste, snow was brought to T pad for disposal. Contaminated gravel was taken to Pad-3	
3/4/04	2004-IR-824818	Well Pad A, Inside Well Pad A Skid 56, GC3	Corrosion Inhibitor	5.00	Corrosion inhibitor spill occurred in skid 56 when a chemical injection pump head developed a leak	Sorbent materials were used to remove the material from the floor of the module.	The absorbent materials used were taken to the Prudhoe Bay waste coordinator for proper disposal per regulations.	
3/10/07	2007-IR-2187346	Lisburne Production Center, East side of Module 4984 at LPC, GPMA	Lube Oil	5.00	5 Gallon Lube Oil spill outside Module 4984. The level switch for the Sump in Module 4984 turns on/off the Pump and provides a highhigh level alarm. Due to cold weather the switch froze and failed to turn the pump on or alert operations to a highhigh level in the sump. This resulted in the level in the sump rising to a point sufficient for it to exit the sump via the overflow line. The secondary containment device, a 55 gallon drum, received the evacuating fluid but was not large enough to contain the entire volume. As a result the secondary containment overflowed, onto the pad, resulting in a 5 gallon lube oil spill.	Hand tools were used to recover the contaminated snow. Contaminated Gravel was recovered using a bobcat with a trimmer and bucket and a dump box.	Contaminated snow went to T-pad and the contaminated gravel was sent to Pad-3 for storage and remediation.	
6/12/05	2005-IR-1410209	Well Pad E, E-Pad Well #33 cellar, GC1	Diesel	5.00	Crew pressure tested surface equipment with diesel to 2500psi.Ran in hole to sssv landing nipple and pulled prong from pxn plug.When close to surface with prong diesel was noticed leaking out of wireline valve equalizing assembly. Needles valves on assebly were already closed. Operator bumped up, closed ssv and swab and evacuated fluids in lubricator to bleed tank. Approximately five gallons of diesel leaked into cellar including a small amount on gravel pad at wellhouse mandoor.	Shovels were used to remove contaminated gravel. Sorbent materials were used to remove liquids in cellar and clean affected well house panels.	Sorbents were taken to NSB oily waste dumpster. The gravel was taken to G&I Drill Site 4 disposal facility.	
5/29/07	2007-IR-2284546	Well Pad S, S pad well house 7	Hydraulic Fluid	5.00	While operator was making rounds he noticed a solenoid leaking hydraulic fluid into the well house floor.	Hand tools and sorbent materials were used to clean affected area in the Wellhouse.	Sorbents were taken to an approved oily waste dumpster and the gravel was taken to Pad 3 disposal facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/1/02	2002-IR-161506	Well Pad L, Next to cuttings tank on Nabors 9ES on L-120.	Drilling Mud	5.00	Peak Super Sucker #K-213 arrived on location and backed up to the cuttings tank @ Nabors 9ES. A small volume of drilling mud had been sucked on when a leak was noticed at the front of the tank, near the compressor box. The operator immediately stopped sucking and raised the tank bed ~1 ft and the leak stopped. Approximately 2 gals went to a drip pan and ~ 3 gals to frozen pad. Drilling HSE, 5700, and WOA Spill Tech were notified. The Super Sucker was emptied and moved from the location. The rig crew and Peak employees cleaned up the frozen mud and disposed of it to the rig cuttings tank.	The contaminated snow was shoveled off pad by the truck driver and rig crew then placed back into the drill mud cuttings tank that it was being transferred from.	The contaminated snow and drilling mud was placed back in the mud cuttings tank that it originated from.	
5/5/07	2007-IR-2251730	Access Road, Approx. 500 ft. south of the intersection of spine and sag river roads (EO, west of hot water plant., Non Process Area	Hydraulic Fluid	5.00	Loader operator was assisting laborers in backfilling a trench with clean fill along the Sag River road, just west of the hot water plant. The operator was using a 980H Cat loader, (#40163) to push some fill into the trench from the end of the trench along the road. The hydraulic line rupture prior to travel along the length of the trench. The operator then back bladed the length of trench with the bucket down in order to level out the fill on the road surface. The operator then moved the loader around to scoop up a load of snow and gravel fill to remove it and replace with clean fill. At this point, the operator noticed some red coloration on the ground and stopped the loader to investigate. As the operator walked around the loader, he noticed a hydraulic line was leaking near the bucket. The operator immediately shutdown the loader and attempted to contain the leak. The entire material release was contained the road surface. The incident was promptly reported to the electrical and equipment general foreman, followed by safety. Initial investigation showed the cause of the material release to be rupture hose caused by chaffing on a sharp edge and was approximately 5 gallons. The material release was reported to 5700 and SRT was contacted to evaluate cleanup actions.	Absorbents were used by contractor to recover areas of pooled material. SRT recovered containmated snow and gravel with shovels and loader.	Contaminated snow and gravel sent to T-pad for storage and disposal at Pad 3. Sorbents to oily waste.	
7/25/04	2004-IR-986779	Well Pad N, N-13, GC2/SAT	Hydraulic Fluid	5.00	N-13 Surface Safety Valve seals failed, spilling hydraulic fluid in the well house.	Hand tools were used to remove contaminated gravel from cellar. Sorbent materials were used to clean well head.	The gravel was taken to Pad 3 disposal facility. The sorbents were taken to an oily waste dumpster.	
1/10/04	2004-IR-740747	PM-2, PM2, GPMA	Lube Oil	5.00	VECO Projects employees were involved with a pigging operation at PM2. They were using an air compressor for the job. During the operation the air compressor was shut in and did not return to idle. The air compressors are shut in but not shut down due to the cold temperatures. While the air compressor was shut in, an oil return line began to freeze and the pressure relief valve released oil into containment. The oil in the containment was blown out of the containment due to the 25 to 35 mph winds. Approximately 5 gallons of lube oil was displaced from the containment to the gravel PM2 pad. The Spill Response Team (SRT) was notified to begin the cleanup process. The air compressor was heated and began to functioning normal. The air compressors will be shut down during future operations.	The contaminated area outside the containment was cleaned up using hand tools, bobcat and dump box. The compressor was wiped sown with sorbents and rags. Once the copmpressor and containment was moved extra cleanup was made.	Contaminated snow was taken to T-pad for disposal and the contaminated gravel was taken to Pad 3.	
9/20/05	2005-IR-1552265	Drill Site 11, Drill site 11 well 27, FS2/COTU	Crude Oil	5.00	Check valve in well house leaked out of shaft seal.	Contaminated gravel was shoveled up with hand tools and put in a dump box for disposal. The well and pipes were wiped down with absorbents.	Contaminated gravel was taken to G&I for disposal and the absorbents were disposed as oily waste.	
6/22/05	2005-IR-1424304	L-5, L5-17 , GPMA	Crude Oil	5.00	While performing the daily wellhead check of L5-17 the Drill Site Operator discovered that a leak had occurred inside of the wellhouse. A significant amount of crude oil was present on the tree, wellhead safety panel, ESD drum, and gravel pad. After determining that the leak had stopped and it was safe to enter the wellhouse the Operator secured the well by closing the wing valve.	SRT cleaned the wellhead and other equipment inside of the wellhouse. After wellhouse was removed they picked up contaminated gravel using shovels and a Bobcat.	Absorbents were disposed as oily waste and the contaminated gravel was taken to G&I for dispoal.	
7/30/06	2006-IR-1927928	Well Pad H, H-11 well house cellar, GC2/SAT	Hydraulic Fluid	5.00	During well house inspections hydraulic fluid was discovered in the gravel cellar.	Material was cleaned up using hand tools.	Approximatly 1 yard of gravel was removed from well house and taken to Pad 3 disposal facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/27/07	2007-IR-2447827	Drill Site 15, Inside Wellhouse of 15-02, FS3	Methanol	5.00	During freeze protect operations the pump crew had finished pumping the required freeze protect volume and had the DSO shut the IGV so they could commence to pressure up the flow line to 1500 psi. While pressuring up the flow line the pumping sub o-ring failed. The tanker driver was outside isolating his tanker from the pump and heard a noise come from the well house. He then went to look at what the noise was and saw fluid spraying inside the well house he then informed the pump crew who immediately shutdown the pump. The operator told his crew to stay out of the well house while he shut the lateral valve on the flow line behind the well house. The crew then waited until the flow line bled down to shut the swab and suck back their equipment. After inspecting the o-ring it was found that it was a black o-ring instead of the normal green o-ring used on tree caps. The black o-ring is believed to be for the tri-plex pump on the unit and is very similar to the normal green o-ring except for the color.	Contaminated gravel and snow were picked up using hand tools. Well House walls and floor were wiped down with absorbent pads and rags.	Sorbents sent to oily waste. Contaminated snow and gravel went to G&I for disposal.	
2/6/02	2002-IR-164560	Drill Site 18, Well 18-34, inside wellhouse	Methanol	5.00	Flowline was freeze protected with methanol. Sometime during phase 3 weather conditions, a Corrosion fitting on the wellhead began leaking into cellar.	Removed grating and recovered product with Vac truck and hand tools.	Approximately 40 gallons of snow, ice, product and water taken to Pad 3 for disposal	
3/26/02	2002-IR-192009	Well Pad Y, Drill site Y well #37	Seawater	5.00	While tripping out of hole with coil tubing the tubing parted at surface. There was internal pressure on the tubing at the time. The fluid pump was immediately shut down. Parting of the tubing resulted in approximately 5 gallons of KCL water reaching the drilling pad surface which at the time was covered with snow. Spill originally applied towards BPXA, changed to Nabors with approval of Mike McDaniel and Todd McGovern June 7, 2002.	Shoveled up affected snow and gravel and placed in rigs cuttings tank to be removed later to a class II disposal facility.	Material was placed into mud cutting box to be taken to Class II disposal facility.	
2/13/01	2001-IR-100521	Drill Site 05	Hydraulic Fluid	5.00	While excavating reserve pit solids, the dosco miner experienced an hydraulic hose failure. The failure resulted in a 5 gal. hydraulic oil spill in the reserve pit. SRT was contacted and spill was cleaned up. Agencies and management have been contacted.	Recover product with loader and place into dump box for disposal.	10 cu. yrds. of lightly contaminated reserve pit solids taken to pad 3 for disposal	
6/19/04	2004-IR-946159	Well Pad C, C-17 Cellar, GC3	Crude Oil	5.00	Well Support rigged down hardline on C-Pad. They notified the operator that there was fluid in the cellar. After the operator inspected the area, he went to Coil Unit (#9) to discuss what happened. The crew told him that the fluid was in the cellar when they arrived. Nobody on the coil unit had previously notified the operator or the Spill Hotline.	The contaminated gravel was removed from the well cellar with a super sucker and hand tools.	The contaminated gravel and crude oil was taken to the Grind & Inject Facility.	
9/11/06	2006-IR-1977922	Pad 3, PAD 3, Non Process Area	Hydraulic Fluid	5.00	AT APPROXIMATELY 6 AM ON THE 11TH, THE OPERATOR AT PAD 3 NOTICED HYDRAULIC FLUID ON THE GROUND WHERE THE VAC TRUCK HAD BEEN OFFLOADING. HE CALLED THE SPILL HOTLINE AND SECURITY NOTIFIED THE DRIVER. THE DRIVER TOOK THE TRUCK INTO THE SHOP FOR REPAIR. THE LEAK ONLY OCCURRED WHILE THE HYDRAULIC PUMP WAS ENGAGED AND DID NOT LEAK WHILE TRAVELING. SRT RESPONDED AND CLEANED UP THE GRAVEL PAD AT PAD 3.	Contaminated gravel was recovered using a bobcat and hand tools.	The contaminated gravel was taken to Pad-3 for storage and future remediation.	
12/3/05	2005-IR-1640481	GC-1 Pad, intersection of GC-1 and Spine road, GC1	Hydraulic Fluid	5.00	Hydraulic pump ruptured on 60 ton crane # spilling 3 gallons of hydraulic oil onto the intersection of GC-1 and the Spine road.	Sorbents and a loader were used to clean affected gravel and spill tray.	The sorbents were placed in an oily waste dumpster and the gravel to Pad 3	
3/15/05	2005-IR-1284203	Drill Site 18, DS 18, Well 18-6 , FS1/SIP/STP	Crude Oil	5.00	Apparantly while rigging up to well 18-6 well services opened and closed the swab valve. A heater was then put on the well causing the fluid trapped between the swab valve and swab cap to expand and release through the o-ring.	Wipe up with absorbant.	Absorb went to oily waste, and contaminated snow went to G&I for disposal.	
8/29/01	2001-IR-113071	Lisburne Production Center, LPC Injection Well #2	Seawater	5.00	At approximately 0900 hours, a Little Red Hot Oil Crew arrived, at LPC-2 to conduct a pumping job for the Well Operations Group. While conducting a site assessment prior to beginning work the crew noticed fluid was leaking from a 400 barrel upright tank that contained seawater. The crew determined that the discharge valve on the tank was in the closed position and the fluid was leaking from a hammer union cap. They stopped the leak by further tightening the hammer union fitting. The Hot Oil crew then immediately notified the LPC Supervisor and Environmental Technician of the spill. The Well Operations Supervisor and HSE Advisor were notified of the spill by the LPC Supervisor. An investigation of the spill revealed that fluid had leaked by a 4 inch plug valve on the discharge nozzle of the tank as well as a hammer union cap. The tank had been filled with seawater by the Veco Well Support crew on the evening of 8/28/01 in preparation for the next mornings pumping operation. The ACS Enviornmental Technician was dispatched to location and estimated the spill volume to be approximatley 5 gallons of seawater.	Recovered material with bobcat loader and placed into dump box for disposal at Pad 3.	2 cu. yrds of lightly contaminated gravel taken to pad 3 for disposal.	
7/16/01	2001-IR-54701	C Pad, South side of the CWC at C-Pad.	Lube Oil	5.00	Employee was instructed to dispose of surplused material into metal dumpster. He was not told of nor did he notice that one of the gear boxes had oil left in it. After he disposed of the gear box oil leaked out of the top of the gear box into the dumpster and then through a crack in the dumpster onto the ground.	Recovered material with Bobcat loader and placed into dump box for disposal at Pad 3	2 cu. yrds of lightly contaminated gravel taken to pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/25/01	2001-IR-119643	Drill Site 04, North of control room DS # 4	MEG	5.00	While pressuring up for a hydro test 5 gallons of glycol water mixture (60/40) was spilled due to flanges not being properly tightened.	Recovered product with loader and placed into dump box for disposal at Pad 3.	3 cu. yrds of lightly contaminated gravel taken to Pad 3 for diposal.	
11/10/07	2007-IR-2463186	L-1, drill site l1, module 4901, GPMA	Corrosion Inhibitor	5.00	L1 corrosion inhibitor pump p-1505a pulsation dampener element failed, allowing inhibitor to fill N2 side of dampener, which in turn filled pressure gauge housing,which then leaked approximately 5 gallons out onto the module floor.	Material was picked up with sorbents and rags. Area cleaned with chem clear.	Contaminated rags and sorbents were sent to oily waste for disposal.	
8/26/06	2006-IR-1954563	Well Pad M, In front of wellhouse M-12, GC2/SAT	Hydraulic Fluid	5.00	While Field Specialist was doing a walk around location, he noticed a mist coming from the engine room on unit. Checking out the situation, he found a hydraulic hose that sprung a leak due to rubbing on metal support.Over his radio, he had the FST operating the unit stop pulling out of hole, set the brake, and lock in the traction, then shut down the power pack. Others on location were working to minimize any released fluid from going to the ground. Response was very good by all on location. Notifications were made, mechanic was dispatched to location, hose was replaced with hose protector on it.Remaining hoses were inspected and work was resumed.	Material was recovered using Bobcat, Dump Truck, and Hand Tools.	Contaminated material was cleaned up and taken to Pad 3 for disposal.	
11/18/06	2006-IR-2055878	Drill Site 12, DS 12-18 well cellar, FS1/SIP/STP	Diesel	5.00	Diesel based fluid escaped while disassembling wellhead. Approx 5 gallons of fluid to secondary containment liner. 1 pint to gravel in cellar.	A pump was used to recover the fluids in the containment and was put in the slop tank for class 2 disposal. The contaminated gravel around the cellar was recovered with a super sucker.	All the contaminated material was taken to G&I for class 2 disposal.	
8/24/07	2007-IR-2381769	U-08, U-8 and Spine Road, Non Process Area	Diesel	5.00	On 8-24-07 at 3:00PM as an employee was moving a triplex pump from U-8 to DS-14 a diesel spill occurred. The employee checked the triplex sump as part of his pre trip inspection and did not recognize any fuel in the holding tank. The sump was moved from its original U-8 position up to a stop sign at the spine road where there is a slight incline causing the fluid that was in the tank to shift and spill out the back. The driver did not realize that he was spilling fuel as he drove down the spine road until he received a call from another employee. Upon being notified the employee pulled the truck over and reported the spill to VECO dispatch. VECO dispatch called SRT and Safety. The amount of the spill per SRT is 5 gallons which makes this a recordable spill. At present the triplex unit is at J-pad.	Contaminated gravel was removed with loader and dump box. The diesel on the chip seal was burned off.	Contaminated gravel was removed to pad 3 for storage and remediation	
7/19/02	2002-IR-269494	EWE Pipeline, EWE Junction at the West side of the building	Corrosion Inhibitor	5.00	Corrosion inhibitor had been drained out of 10" miscible injection line between EWE junction and GC-2 during the final phase of the Hydrotesting of this newly constructed pipeline. When the compressed air that had pushed the final pig was bled out of the line at the EWE junction it blew out a mist estimated to have been less than 5 gallons of liquid CRO0408F Corrosion Control inhibitor.	The contaminated gravel was removed fromt the gravel pad with hand tools and heavy equipment. The truck that was misted with product has been hauled on a flatbed to the company wash bay.	All of the contaminated gravel has been taken to T-pad storage pit.	
6/19/03	2003-IR-543702	Well Pad D, D-31	Seawater	5.00	Employee was dispatched to D-31 to offload 290 barrels of inhibited 1% KCL into a 400 barrel upright tank. Employee arrived on site and strapped the upright tank and found the tank to be empty. Employee begin offloading operation into the upright tank by filling the tank from the lower connection to avoid foaming action of the corrosion inhibitor. Employee's rate of fill was at 15psi to prevent foaming of the corrosion inhibitor. As employee was near the end of the offloading(at approximately 50 barrels remaining to offload) he begin to do a walk around the tank to inspect for any leaks. Another employee in the area noticed that foam was coming out of the top of the tank. Employee offloading the product immediately shutdown the offloading operation. Employee than called dispatch who notified SRT.	All of the contaminated gravel was removed with heavy equipment and hand tools.	All of the contaminated gravel was taken to pad-3 in a dump truck.	
5/18/03	2003-IR-513384	GC-3 Pad, GC 3 Pad	Hydraulic Fluid	5.00	Loader 52-305 experienced a power steering pump hose failure and leaked approx. 4 gallons of 10/30 oil onto the snow packed chip seal surface.	All of the contaminated snow was removed from the pad using heavy equipment and hand tools. The drips of oil on the chipseal road were burned off with a weed burner.	All of the contaminated snow was taken to T-Pad storage facility.	
7/23/04	2004-IR-985930	Well Pad D, Behind Well D-33, GC1	Crude Oil	5.00	D-33 Lateral Valve failed, spilling approximately 5 gals of crude. Investigation is underway.	A supersucker was used to remove contaminated gravel. Sorbents were used to clean affected pipe and valve.	The gravel was taken to Drill Site 4 Grind and inject facility.	
5/5/06	2006-IR-1823710	Lisburne Production Center, Pad on east side on Module 4951 at LPC, GPMA	Lube Oil	5.00	A drain hose from Air Compressor 1813 glycol supply was run to the sump in Module 4951. The isolation valve was closed, but the valve did not hold completely allowing a drip from the end of the hose. The end of the drain hose was placed on the sump grating directly over the sump overflow line cap. The drain hose had a drip which dropped directly on the overflow line cap. The glycol migrated around the edges of the overflow line cap and dropped directly into the overflow line instead of into the sump. As the overflow line filled, it drained to the overflow catch barrel outside the module. This filled the overflow catch barrel and then the glycol dripped to the ground.	A bobcat was used to recover the contaminated snow. A super sucker was used to recover the contaminated gravel.	Contaminated gravel was taken to Pad 3 West pit for disposal.	
6/2/02	2002-IR-234821	Pad 3, Pad 3 Cell #1 west dike	Crude Oil	5.00	When the dewater trash pump was started the line began to leak. A small crack developed in the cell two dewatering hard line. The crack formed at a point in the center if the cell one dike wall. The trash pump was turned off and relief valve was opened seconds later, when leak was detected. The material released consisted of 99% snow melt and 1% crude.	Recovered material with loader and placed into west pit.	3 cubic yards of material taken Pad 3 West pit for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/16/07	2007-IR-2158459	Flow Station 1, Flow 1 pad near Butler Bldg., FS1/SIP/STP	Diesel	5.00	A light plant was found leaking fuel on the FS3 access road. The unit had containment attached to the bottom, but fuel had collected and was leaking out. SRT was called, and a spot clean up was initiated. During the clean up another spot was noticed five feet infront of where the unit had been parked. SRT was notified again, and the spot clean up was advised to continue. Later that morning the crew found several contaminated locations at the staging area in front of FS1 where the light plant was taken from at the beginning of the shift. SRT was notified and responded. The contaminated snow and gravel from both locations was steamed to find five gallons of fuel recovered.	Loader, Trimmer, Bobcat, and Autocar and dump box were used to remove contaminated material.	Contaminated snow was melted and sent to GC 2 for recycle.	
3/23/06	2006-IR-1769538	GC-2, Q-pad Ice Pad at GC-2 flowline spill site, GC2/SAT	Hydraulic Fluid	5.00	While working on GC-2 flowline spill at the Q-pad ice pad a maxihaul blew a hydraulic hose.	A loader and hand tools were used to remove the contaminated ice and snow from the pad.	The contaminated snow was taken to T-pad storage facility.	
1/12/05	2005-IR-1207952	Drill Site 15, DS-15 On Pad and edge of pad. , FS3	Motor Oil	5.00	Tractor Truck 82164 was staged on DS-15 with the engine running when severe Phase 3 conditions struck. The engine air intake and filter became blocked by snow. This resulted in an increase of vacuum on the crankcase ventilation system drawing oil into the intake. This caused oil to exit out of the exhaust stack in a mist blowing approximately 25¿ into the tundra. The engine eventually ran low enough on oil to cause an internal mechanical failure. This resulted in a punctured engine block draining more oil onto the pad. A portable dike was in place but the failure was not containable by the dike.	Contaminated snow was shoveled and placed into a Melt tank. Contaminated material on the pad will be recovered with a loader and bucket.	Contaminated snow was melted down and disposed at Pad-3.	
4/20/02	2002-IR-207545	Drill Site 04, DS 4 Reserve Pit	Hydraulic Fluid	5.00	Trimmer M30 was working in the process pit and experienced a hydraulic hose failure. The machine was shut down and the security SRT and Peak project manager were notified. The Machine was taken to the shop and repaired.	Loader, and Dump Box were used to remove contaminated material.	Contaminated material was brought to T Pad for disposal.	
3/20/02	2002-IR-187063	Drill Site 12, DS 12 BETWEEN WELL #s 2 & 5	MEG	5.00	FORKLIFT/LOADER # FL-04 LEAKED GLYCOL FROM HEATER HOSE TO CAB. APPROX. 5 GAL ONTO DS 12 PAD.	Loader and dump box were used to remove contaminated material.	Contaminated material was brought to pad 3 for disposal.	
1/15/03	2003-IR-414403	Drill Site L1, DS-l1 near Well #21	Hydraulic Fluid	5.00	The pin that secured one end of the hydraulic steering cylinder failed. When the steering was used the ram extended to the mechanical stop. The pressure line made contacted with the equipment and was knocked off of the cylinder releasing five gallons of hydraulic fluid to the gravel pad. SRT was notified and arrived on the drill site. SRT estimated the volume and directed clean up.	Recovered material with loader and placed into dump box for disposal at Pad 3	4 cubic yards of material taken to Pad 3 for disposal.	
4/22/03	2003-IR-490690	Lisburne Production Center, LPC Pad between Modules 4938 and 4922	Hydraulic Fluid	5.00	While pressure testing line connections in preparation for pressure testing the 1808 HP Compressor primary seal, the Schlumberger Nitrogen Pumping Unit blew a hydraulic hose on its power take off unit.	Material was recovered in snow with a loader and shovels and transported in a dump box to T-pad.	Material was taken to T-pad for storage and disposal.	
11/7/04	2004-IR-1118229	VMS Building, Parking lot VMS Shop WOA, Non Process Area	Hydraulic Fluid	5.00	Low Boy Trailer #70-207 was parked outside the VMS shop with a loaded manlift ready for transport. An unprotected hydraulic hose became chaffed and ruptured spilling 5 gallons of hydraulic fluid onto the snow covered gravel parking area. SRT was notified and responded to perform cleanup.	A loader was used to remove the contaminated snow from the pad.	The material was taken to the T-pad storage facility.	
2/7/01	2001-IR-98936	Niakuk Pad	Methanol	5.00	A Halliburton crew was rigged up on Niakuk-12B to conduct wireline operations. After completing their operation, the crews completed a post-job location and condition report before leaving the drill-site. While inspecting the area, one of the crew members stepped into slushy snow and determined that methanol had been released onto the pad. The spill covered an area that was approximately 10 feet X 7 feet. The crew member immediately notified the DS Operator and the Wells Group Supervision of the discovery. The Environmental Department was also notified and dispatched to the location to assess the spill. The spill was estimated to be approximately 5 gallons of methanol. The Well Opeartions Group had been conducting various jobs on this well for several days. The crew that identified the spill had not used methanol during any portion of their operation. An investigation has been conducted, however, it is undeterminable as to when the spill actually occurred and from which activity (ie. coil tubing or wireline operations).	Recovered snow and gravel with hand tools and placed into drums for disposal/reuse	Hazwaste for solids and beneficial reuse for liquids	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/8/07	2007-IR-2367853	Spine Road, LRS yard, Non Process Area	Crude Oil	5.00	The tanker unit was at the LRS yard in between jobs. While at the shop it was going through some routine maintenance and cleaning. After finishing with the maintenance and cleaning the tanker operator used his tanker to evacuate a pump unit completely because valves need to be repaired on the pump unit. After sucking out the pump unit the tanker operator thought he had secured his unit and continued cleaning it. After approximately two hours the tanker was called to another job. The tanker operator finished cleaning and prepared to depart the yard. He did a walk around of his unit and prepared to depart. After leaving the yard and turning onto the spine road he looked into his mirrors and saw black streaks behind his tanker. He immediately pulled off of the road and contacted his supervisor. He then commenced to throw a dike under the rear of his unit and evacuate the sump.	Material was removed with a loader and dump box.	Contaminated gravel was brought to G&I for disposal.	
12/17/05	2005-IR-1660531	C Pad, EOA CPAD and road to EOA Fleet Shop., Non Process Area	Hydraulic Fluid	5.00	Loader backboard attachment pin seal failed during normal operations allowing hydraulic fluid to leak. When failure was noticed, equipment was shut down and area covered to contain leak. SRT notified promptly. Equipment was driven to Fleet Shop for repair based on loader operators previous experience with type of failure and Fleet Shop's phone recommendation. During the trip more fluid escaped to the ground. SRT performed the cleanup. Approximately 5 gallons total were released. The lesson learned from this event was that after the initial leak was controlled , the valve did not seal with the controls in a neutral position as in the past. All future events will be controlled in the immediate area until the Fleet Shop can make an onsite inspection and recommendation.	Contaminated snow on C-Pad was scraped up with a loader and put into a dumpbox for disposal. Weed burners was used to burn areas on the chip seal where the loader had dripped.	Contaminated snow was taken to T-pad for disposal.	
11/6/05	2005-IR-1605916	PBOC, PBOC parking lot, next to the walkway that leads to the front door., Non Process Area	Motor Oil	5.00	Portable Heater #88-771 was placed in the PBOC parking lot on 11/4/05, with trunks running under the building. The heater was kept running throughout day and night shift. Crew had the heater on site to avoid freezing lines while they installed sprinkler piping in the soffits. A 5¿ X 5¿ containment dike was placed and kept under the heater throughout the job. Lead arrived on the morning of 11/06/05 and noted that the heater was no longer working. He discovered that oil had been released and hit the corner of the containment, spilling to the ground. He made appropriate notifications. It was determined to be about 5 gallons of fluid. A loader was used to clean the area. The fluid was released from a split in the feed line that leads to the oil filter. The material had sprayed onto the door and dripped down onto the ground, missing the containment dike.	Contaminated snow and gravel was recovered with a loader and transported to Pad 3 for disposal by SRT dump truck.	Contaminated material taken to Pad 3 for disposal.	
2/15/04	2004-IR-805891	Fleet Shop, PBOC Fleet Shop Yard, Non Process Area	Lube Oil	5.00	Dozer #56-305 experienced a failure of the oil scavenge pump system. 2 gallons of engine leaked onto pad outside fleet shop. SRT notified.	A grader and loader was used to recover the contaminated snow.	The recovered material went to T-pad for disposal.	
11/13/03	2003-IR-679137	Well Pad F, F-11 wellhouse	Hydraulic Fluid	5.00	During the well rounds, the operator discovered a hydraulic spill in the F-11 wellhouse under the hydraulic panel. The leak was called in to the spill hotline. It was traced to a diaphragm failure in the high pressure switch for the hydraulic pump. Once the diaphragm failed, the pump kicked on and the oil weeped through the body of the pilot.	Hand tools were used to removed gravel from Well house.	The material was taken to Pad 3 disposal facility.	
2/14/07	2007-IR-2157417	Spine Road, VMS Pad, Non Process Area	Hydraulic Fluid	5.00	Employee was changing implements when employee uncoupled the rake and impacted a hydraulic fitting on the backboard of loader 52-255. The employee shut down the loader and placed spill containment under the leak. The employee called the supervisor and the supervisor called SRT and notified the proper people in the reporting matrix. SRT cleaned up the spill and the loader was taken to the VMS shop for repair. An investigation will be held on 2/15/2007 to determine the exact cause of the spill.	Absorbents were used to used to clean liquids on top of the snow and shovels were used to clean up the affected snow.	The material was taken to T-pad storage facility.	
4/5/05	2005-IR-1311052	Well Pad W, Gravel pad at W-Pad #16, GC2/SAT	Crude Oil	5.00	Employee was loading vac truck #86051 on an acid flowback job, with 70% crude and 30% produced water mix. He had filled the truck to 235 bbls. He was monitoring the back valves then walked to the doghouse on the driver¿s side of the truck. When he was returning to the back of the truck, he noticed fluid leaking out of the vent line and running onto the pad. He immediately shut down both valves in the back and placed a dike under the vent, then turned off the pump. He notified dispatch, who made the additional notifications, then covered the area with absorbs. SRT called back and asked that the employee shovel and bag the spill, which he did. The area of the spill was approximately 10¿ by 8¿, and about five gallons. There was approximately one-half gallon in the dike.	Material was shoveled up and and placed in oily waste bags.	Material has been taken to the T-Pad storage pit.	
3/14/06	2006-IR-1759622	Drill Site 16, DS 16-21 wing flange, FS2/COTU	Diesel	5.00	While removing the flow line 2 gallons of diesel leaked out of the wing flange	A loader and bucket was used to scrape up the contaminated area and the material was put in a dump box for disposal.	Contaminated snow was taken to G&I for disposal.	
1/15/03	2003-IR-414943	Well Pad Z, Z-25 wellhouse	Hydraulic Fluid	5.00	A quick dump installed to reduce the closing time for the Z-25 surface safety valve leaked-by, causing the return tank to overflow.	Shovels were used to remove contaminated gravel from inside well house.	The gravel was taken to Pad 3 disposal facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/13/06	2006-IR-1868768	Well Pad J, Well J-09 downstream of lateral valve., GC2/SAT	Crude Oil	5.00	While doing a cable survey - field electricians reported a slight drip from a needle valve located on a lateral valve outside the wellhouse near the reserve pit.	A supersucker and hand tools were used to remove affected gravel.	The material was taken to DS-4 Grind and inject.	
2/10/02	2002-IR-165465	Well Pad S, S-40 cellar	Diesel	5.00	Diesel was discovered coming from the outer annulus of well S-40. DHD and Environmental were notified. DHD evaluated the situation and recommended that the well be shut-in. The well has been shut-in awaiting further investigation as to the source and/or cause of the leak.	A supersucker and hand tools were used to remove contaminated gravel from the Well Cellar.	The gravel was taken Grind and inject facility.	
5/16/02	2002-IR-225032	Well Pad S, WOA- S-Pad	Crude Oil	5.00	A half barrell that had been used as a catch pan for a line break was contacted by a loader resulting in a spill to the pad.	A loader was used to pick up contaminated material and sorbent was used to remove standing liquids.	Material was hauled to T-Pad storage facility.	
1/15/05	2005-IR-1208976	MCC Laydown Yard, Laydown Yard (Pad 9), Non Process Area	Hydraulic Fluid	5.00	Hydraulic Filter Gasket Failure on Tractor # 42-030	Contaminated snow was recovered with a loader and bucket and placed into a dump box for disposal.	Material will be taken to T-Pad for disposal.	
1/14/03	2003-IR-415210	Flow Station 3, FS #3 pad near control room bullrail.	Diesel	5.00	On 1/14/2003 at approximately 10:15am a worker went out to his vehicle that was parked near the control room at Flow Station 3. As he did his 360-degree walk around he noticed something dripping from underneath his vehicle. Further investigation revealed that a leak had occurred in the fuel system releasing approximately 5 gallons of diesel to the gravel pad. All appropriate notifications were made and SRT cleaned the area and disposed of the contaminated material. The vehicle was towed in to the vehicle maintenance shop for investigation and repair. Further investigation revealed that the truck had been in for service the night before, and the fuel pump had been replaced, however this leak was determined to have originated at the fuel filter.	Material recovered with hand tools and placed into container for beneficial reuse.	Material was was sent to Flow 1 for recycle.	
9/16/02	2002-IR-316737	Well Pad A, Module A-56	Corrosion Inhibitor	5.00	One of the heads on the chemical injection pump developed a leak at the gasket. A stream of chemical was emitted from the pump. The total volume was approximately 5 gallons. When trying to tighten up the head bolts, two of the bolts broke indicating that they had corroded.	Two people wearing respirators and absorbent sheets wiped up the spill.	Sorbent was taken to NSB oily waste dumpster	
7/17/03	2003-IR-569919	Main Construction Camp (MCC), EOA MCC Lisburne wing 1st floor mechanical room	MEG	5.00	An automatic air eliminator vent stuck open and release a small quantity of glycol from the heating system onto the floor of the mechanical room in Lisburne wing of MCC, a portion of which leached through the floor and onto the pad under the building.	Bobcat and hand tools were used to remove contaminated gravel.	Material was brought to Pad 3 for disposal.	
2/23/03	2003-IR-443255	U-11 (EOA Building)	Diesel	5.00	Generator # 80-311 developed a leak in its fuel tank. The diesel filled the secondary containment allowing 5 gallons of diesel to leak onto the gravel floor. The fuel was evacuated from the tank and the necessary repairs were made.	Bobcat and dump box were used to remove material.	Material was brought to Pad 3 for disposal.	
8/12/05	2005-IR-1500970	Well Pad B, B pad, GC3	Diesel	5.00	Found 5' x 10' Diesel Spill on B pad under Envirovac Unit. Suspect Leak in fuel line.	A loader was used to remove contaminated gravel.	The contaminated gravel was taken to Pad 3.	
4/12/04	2004-IR-866768	Checkpoint - Central, On the road from central check-point to in front of DS-13, Non Process Area	Hydraulic Fluid	5.00	snow blower 53-011 had hydraulic O-ring failure while traveling on road near the central check point security office.	A grader and loader with a bucket was used to recover the material. It was placed into a dump box for disposal.	Material was taken to T-pad for disposal.	
2/12/06	2006-IR-1721302	SRT Shop, EOA SRT Bullrail, Non Process Area	Hydraulic Fluid	5.00	While loading the dump box on the skid bed truck, a hydraulic hose broke free from the fitting.	Contaminated snow was scraped up with a loader and put into a dump box for disposal.	Material was taken to T-pad for disposal.	
4/3/03	2003-IR-481264	Hot Water Plant, Envirovac - Hot water plant	Sewage	5.00	Approximately 5 gallons of sewage leaked from a hose connection at the Hot Water Plant. Investigation was unable to clearly identify the cause of this event.	Material was picked up with a bobcat and put into a dump box for disposal.	Material was taken to T-pad for disposal.	
5/15/05	2005-IR-1368390	Drill Site 02, Drillsite 2 well 26, FS1/SIP/STP	Crude Oil	5.00	The operator found a large stain on the pad in front of the DS2-26 well house after snow had melted. Immediately reported for size up and remediation.	Loader, and dump box were used to remove contaminated material.	Material was brought to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/2/06	2006-IR-1962878	Seawater Injection Plant, SIP Tank-31-1902, FS1/SIP/STP	Diesel	5.00	A tank crew was at SIP attempting to drain diesel Tank T-31-1902 from the tank inlet line. The line had a check valve that needed to be removed to be able to drain the tank. There was pressure behind the valve, although a second check valve was closed at the tank. Instead of loosening bolts on flange to relieve pressure, the lead pushed in the valve flapper with a wrench. A small amount of diesel came out, and he pushed the wrench harder and a larger amount of diesel sprayed out onto the ground and onto 2 employee's coveralls. The employees immediately put down absorb on the gravel, and made appropriate notifications. SRT responded and cleaned up the release. The amount released to the ground was estimated to be 5 gallons. Incident will be classified as a spill	Bobcat and dump box were used to remove contaminated material.	Material was brought to Pad 3 for disoal.	
4/14/03	2003-IR-487213	Spine Road, Spine access road from Pad 3 to G&I	Drilling Mud	5.00	Apparently, the Cell 2 Material that was loaded onto a dump truck for hauling from Pad 3 to the G&I leaked, possibly though a gap in the rear gate, of the dump truck that was hauling it. This materila was deposited onto the spine road in small "globs" from Pad 3 to the G&I. The driver did not notice the leaked substances. The material spill was reported to SRT on the 15th. The last truck to haul this material was on the 14th of April. Unknown exact time of spill. Quantity is estimated by SRT at 5 gallons total.	Hand tools and weed burner were used to remove material.	Material was brought to G&I for disposal.	
9/1/07	2007-IR-2390190	Drill Site 14, DS 14, Well 02, FS3	Diesel	5.00	E-line crew had a 5 gallon diesel spill due to 1 step of the procedure not being met, during bleed-off. They had finished a pressure test and had given it time to drain, before popping off well. What didn't happen was that the 1/2 inch hose didn't get taken off to verify that they weren't vapor locked. This was found immediately after things were secure and they looked for reason of fluid being there.	Hand tools were used to remove contaminated gravel.	Material was brought to G&I for disopsal.	
10/20/03	2003-IR-654595	Checkpoint - East, On the road near the East check point.	Crude Oil	5.00	Approximately 5 gallons of a crude water emulsion were released from the vent system on Vac Unit 86070 to the road surface at and near the East checkpoint. The Vac unit had approximately 311bbls of product on board, and the driver was in route to pad 3 to offload when the incident occurred. The spill area was been coned off to prevent traffic from driving through it. All notifications were made and SRT cleaned up and disposed of the contaminated gravel. Investigation revealed that when the driver left the Hot Water plant a walk around was done to check the truck and make sure it was ready for road travel. The driver stated that he was not sure if the vent line was completely closed or not. He then left the HWP yard and proceeded to head for pad 3. After leaving the checkpoint he got a call from dispatch to come to the yard. Upon arrival in the yard someone noticed some fluid dripping from the rear doghouse on the Vac unit. When the driver opened the rear doors to check he saw a stream of fluid coming out of the weep hole on the pop-off valve. An attempt was made to establish a vacuum on the unit, and when a vac was not building it was found that the vent line was partially open. The vent was closed and a vacuum was established. The truck was eventually off loaded onto another vac unit and taken to pad 3 for disposal.	Contaminated material was was scraped up with a grader and loader and placed into a dump box for disposal.	Material was taken to G&I for disposal.	
9/21/04	2004-IR-1060862	Niakuk Well Pad, Thre inch hard line connection, GPMA	Diesel	5.00	While conducting pressure test on three inch hard line with diesel there was a material release at one of the connections in wellhouse. The day crew had rigged iron up and after crew change the night crew went to pressure test. The connection was in a bind and appeared to be tight but was not double checked with hammer.	Absorb was used to pick up diesel from containment and contaminated gravel was scooped up with hand tools and bagged for disposal.	Material was taken to G&I for disposal	
11/6/07	2007-IR-2460026	Lisburne Production Center, LPC, Produced Water Module 4923, GPMA	Produced Water	5.00	PWI Pump 15001 tripped offline due to motor overload. During restart checked the condition of a known outboard seal leakage problem, at this point the Operator noticed the pump was spinning backwards, due to backflow with no discharge check valve internals. He attempted to stop the pump rotation, by closing in the suction block valve, which was nearby, instead of closing the discharge block valve, which was upstairs. Reverse flow through the outboard seal (discharge), pressurized the seal barrier fluid pot causing the protective rupture disc to blow out, which resulted in a 5gal. spill of produced water to the module floor. The pump was isolated and depressured, the rupture disc was repaired and the spill was cleaned up.	Cleaned up spilled produced water using a shop vac and disposed of it into floor sump.	Recycled into floor sump/CHD system.	
8/5/05	2005-IR-1489821	Drill Site 11, DS11-27, FS2/COTU	Diesel	5.00	Unit Operator and Fueler were filling Genset Diesel tank through a one inch quick connection. Tank was overfilled and forced Diesel fuel out of the vent lines and onto the ground.	Hand tools were used to remove contaminated gravel from Pad.	Material went to Pad 3 for disposal.	
3/10/03	2003-IR-455536	Flow Station 2, FS-2/Produced Water Disposal Well 2-1	Diesel	5.00	Employees were fluid packing hard line, pumping diesel to pump and sub via tri-plex pump. They had been pumping fluid for approximately 2 minutes when diesel was noticed flowing from a hammer-union fitting. At this time the tri-plex pump was shut down and isolated, the pump in sub valve and the tree were also isolated. Absorb was then wrapped around the union to contain any remaining product. VECO dispatch was notified and SRT cleaned and will dispose of product.	Recovered material with hand tools and placed into drums for beneficial resuse.	Material will be beficially reused.	
7/2/03	2003-IR-558718	Well Pad G, G-19 Cellar	Crude Oil	5.00	While making rounds, the pad operator found crude oil in the cellar of well G-19. Based on traces of oil on the casing, he felt that the source of the oil was the Bradenhead. The leak was not active at the time of discovery. The Spill Hotline, x5700, and the Well Integrity Engineer were notified.	Most of the fluids were vac'd from the cellar, final cleanup will involve removal of contaminated gravel with hand tools and super sucker.	Fluids were disposed of at Pad 3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/8/06	2006-IR-2009836	Drill Site 04, D-S 4 Well-1, FS2/COTU	Diesel	5.00	At about 12: PM employee called the G&I control room to let the board lead know that he was done bleeding the Outer Annulus on injection well #1. While employee was disconnecting bleed hose from the Outer Annulus he noticed a drip on a tubing connection. The employee took his wrench and was about to check one of the fittings when a tubing fitting dislodged and discharged diesel into the well cellar. The employee called his supervisor and the supervisor called SRT and AES safety. The employee replaced the Tubing and fitting and filled out his report.	Vac truck was used to suck up fluid's in celler.	Fluid's went to G&N for disposal.	
2/13/04	2004-IR-772645	Well Pad Z, GPB WEST Z-PAD, GC2/SAT	Diesel	5.00	diesel spill from manlift that had not been picked up by equipment group one week after being released. Reason for leak not determined yet.	The contaminated snow was removed by using hand tool and taken to Sante Fe Pad accumulation bin for beneficial reuse.	Hydrocarbon recycle.	
4/8/05	2005-IR-1316116	GC-3 Pad, GC-3 south West coner, GC3	Hydraulic Fluid	5.00	While doing snow removal at GC-3 loader #52-255 developed a boom lift hydraulic line failure, leaking approximately 5 gallons of hydraulic fluid to the pad.	All of the contaminated snow was removed using heavy equipment and dump trucks.	T-Pad storage pit.	
3/29/04	2004-IR-850987	Drill Site 09, Drill Site #9, FS2/COTU	Sewage	5.00	A frozen valve on an envirovac unit resulted in a 5 gallon sewage spill at Drill Site 9. Spill quickly froze and was scraped up. SRT was notified.	Scraped up frozen sewage snow and ice with a loader and bucket and placed into a dump box for disposal.	Taken to T - Pad	
5/14/02	2002-IR-223400	Pad 3	Diesel	5.00	The fuel tank on heater # 88-713 cracked releasing approximately five gallons of Diesel fuel to the pad SRT was called cleaned spill with the assistance. The Security group, SRT and project manager were notified when the spill was discovered.	Loader and dump box were used to remove material.	Pad 3 West Pit.	
1/27/01	2001-IR-98881	L-5, L-5 Access Road	Hydraulic Fluid	5.00	Fitting on hose broke on snow blower # 53-004 causing a 3 gal spill covering a surface area of 1'x1'.	Used loader with scratcher and bucket to collect contaminated snow and place in dump box.	Pad 3 East Pit	
9/6/07	2007-IR-2396452	Lisburne Production Center, Lisburne Production Center (LPC) module 4923, 15004 PWI Pump skid., GPMA	Propylene Glycol	5.00	while attempting to start 15004 pump the seal reclaimation tank overflowed due to a malfunctioning level indicator. Approximately 5 gallons of 60/40 ethylene glycol/water mixture spilled on the skid.	Shop vac and absorbent pads	Sump	
11/12/07	2007-IR-2464761	Drill Site 05, DS5-40, FS1/SIP/STP	Diesel	5.00	Coil crew was performing a milling job DS5-40, and was pressuring up to 2500 making an attempt to free the coil. Supervisor saw a pressure drop and advised the crew to check for leaks. Personnel noticed fluid running down the tree, and the leak was found to be coming from an O-ring on the lubricator section above the BOP. The pressure was immediately bled down. QHSE, SRT and SLB Cell Leader were notified.	SRT responded and advised SLB they would return the following morning to perform cleanup.		
10/29/96	1996-IR-89722	Niakuk Pad	Drilling Mud	5.00	The motorman was relieving the driller on the brake. He began to make a connection and the rig pumps had not been turned off. As the drill pipe was unscrewed drilling mud began to spray over the rig floor. Some mud escaped out of the door to the beaver slide and onto the pad.		Exempt mud was taken to ARCO Pad 3 and placed in storage cells for remediation at a latter date. Non-exempt liquids where disposed of at ARCO pad 3.	Employee attempted to break a drill pipe connection to add another section while pipe was still pressured up. The broken connection allowed drilling mud to run down the beaver slide onto the pad.
3/5/92	1992-IR-87239	Well Pad B	Fresh Water	5.00	While pigging the B-31 line after hydro-testing, 25 gallons of material were vented from the line instead of the anticipated 15 gallons. This resulted in an overflow of the catch pan. All material was shoveled up and put into a bag for removal from the site. The contaminated material was taken to T pad it for summer covery. Discussion was held with the contractor that standard preparation for a worst case discharge should be made.		Contaminated material taken to T pad pit for summer recovery.	While pigging the B-31 line after hydro-testing, 25 gallons of material were vented from the line instead of the anticipated 15 gallons, which resulted in an overflow of the catch pan.
3/5/92	1992-IR-87239	Well Pad B	MEG	5.00	While pigging the B-31 line after hydro-testing, 25 gallons of material were vented from the line instead of the anticipated 15 gallons. This resulted in an overflow of the catch pan. All material was shoveled up and put into a bag for removal from the site. The contaminated material was taken to T pad it for summer covery. Discussion was held with the contractor that standard preparation for a worst case discharge should be made.		Contaminated material taken to T pad pit for summer recovery.	While pigging the B-31 line after hydro-testing, 25 gallons of material were vented from the line instead of the anticipated 15 gallons, which resulted in an overflow of the catch pan.
7/9/92	1992-IR-86662	Price Pad	Diesel	5.00	Heat expansion of full diesel tank caused discharge of contaminants from vent. All contaminants were picked up with shovels and placed in plastics bags. All contaminated material was hauled to A3W2 melt tank for washing. Operators were advised to monitor fill levels and avoid over filling tanks.		All contaminated material was hauled to A3W2 melt tank for washing.	Heat expansion of full diesel tank caused discharge of contaminants from vent.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/13/92	1992-IR-87828	Well Pad F, GC1	Methanol	5.00	During the night four separate trucks loaded or unloaded MEOH at F pad tank. Spill was discovered in the morning by the operator.		All contaminants hauled to melt tank at A3/W2 warehouse.	Unknown
2/19/96	1996-IR-91167	Skid 50/51	Diesel	5.00	In preparation to thaw gravel around Skid 50-51, for the Veco Construction TIK project, HB&R hot oil truck was called to supply hot water to complete the job. Truck arrived at the jobsite, circulation pump was started, and diesel/water mixture was discharged through the vent line onto the pad. Tank was requested to be "clean" . HB&R frequently works with the PE and Drilling groups and their term clean means to be drained of hydrocarbons and re-filled with water without a wash in-between. Approxmatly 5 gals of diesel was spilled along with 25 gals of water. Veco Construction, CCI and HB&R cleaned up the spill area.		Contaminated snow was put into a 966 snow bucket and hauled to the recycle/reuse melt tank on Santa Fe Pad. Contaminated gravel was taken to Santa Fe Pad where it was put into one of our storage bins awaiting transportation to Arco Pad 3.	In preparation to thaw gravel around Skid 51, H. B. & R. hot oil truck was circulating fluids through the heat coils to prevent freeze up. Potable water came in contact with diesel still left in the tanks. A return valve was left open. This allowed flu
1/17/96	1996-IR-91109	Drill Site 15	Diesel	5.00	While preparing to freeze protect the well, the HB&R unit primed the pump on their truck. A valve between the two storage tanks (on the truck) was left partially open and when the pump pressured up, diesel from tank 1 to migrated into tank 2 and then out of a vent onto the Pad.		The non-hazardous contaminated sorbents were placed in a NSB Oily Waste Dumpster. The non-hazardous contaminated snow and gravel was taken to Pad 3 for disposal.	While preparing to freeze protect the well, the HB&R unit primed the pump on their truck. A valve between the two storage tanks (on the truck) was left partially open and when the pump pressured up, diesel from tank 1 to migrated into tank 2 and then ou
4/13/96	1996-IR-91143	Well Pad F	Diesel	5.00	Norcon night fueler check the truck prior to the time of the incident and did not notice any problems. The piece of equipment is a Veco Equipment 5-Ton glat bed truck (vehicle # 26054). The spill was caused by a component failure (fiber washer) on the 1/4" copper fuel return line on top of the fuel filter housing. The truck had a containment dike under it, but due to wind blowing 5 gallons of diesel sprayed on the ice covered gravel pad. Fiber washers on the unit were then replaced with copper ones.		The snow and ice was taken to A3W2 melt tank and will be melted for reuse. The non hazardous gravel was taken to Arco Pad 3 for disposal.	A Crush Washer on the top of the fuel filter cracked (on the flatbed #26-054), and fuel sprayed out of the filter into and out of the liners placed under the flatbed. Approx. 3 gallons of Diesel was contained in the liners and 5 gallons spilled out of th
6/4/97	1997-IR-89160	Well Pad C	Diesel	5.00	A diesel spill was located in two areas, one on the C-Pad access road and the other on C-Pad. The spills are believe to have derived from the same source. An investigation was conducted but the exact source of the spill cannot be determined. The environmental department was notified and the contaminated areas were cleaned up.		Analysis indicated that the recovered gravel was non-hazardous and it was sent to Pad 3 for thermal remediation at a later date.	A diesel spill approximately 100 feet long and 2 feet wide was discovered on the C Pad access road. Upon further investigation additional material was discovered on the pad. An investigation was conducted but the source of the spill could not be determi
2/15/97	1997-IR-89214	Flow Station 2	Seawater	5.00	A 325 bbls. Vac truck was taking on a load of Seawater at the Arco SIP (EOA) for a job at Nabors rig 4ES in MPU. The operator, relying on the float gauge, stopped the gravity feed loading process at a float gauge indication of 300 bbls.. He checked his sight glass gauge and it showed a full load. The operator then used the SIP plant air (150#) to blow down his hose. The seawater spilled out the overflow line and onto the snow-covered pad. The spill was reported and the contaminated snow was shoveled into bags and taken to Peak wash bay to await disposal.		Contaminated snow taken to Peak wash bay and placed in the Class I sump for disposal at Pad 3.	A 325 bbls. Vac truck was taking on a load of Seawater at the Arco SIP. The operator, relying on the float gauge, stopped the gravity fed loading process at a float gauge indication of 300 bbls. He checked his sight glass gauge and it showed a full load.
3/17/98	1998-IR-90677	Well Pad B	Crude Oil	5.00	B pad test separator overpressured causing ruptured disk to blow & PSV to lift. This resulted in a fine mist being sprayed into the containment pit & extending approx 150' onto the tundra. As the mist is very fine the actual volume is quite low. For reasons unknown at this time the PSV failed to reseat at the lift pressure of 1300 lbs & instead vented the vessel to 0. More details pending investigation.		Material will be taken to ARCO Pad 3 for RCRA-exempt Class II disposal.	B pad test separator overpressured causing ruptured disk to blow & PSV to lift. This resulted in a fine mist being sprayed into the containment pit & extending approx 150' onto the tundra. For reasons unknown at this time, the PSV failed to reseat at th

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/29/98	1998-IR-90571	Surfcoat Pad	Drilling Mud	5.00	While attempting to circulate Cold Set III lead cement to surface on the cement job, the 13-3/8" casing hanger bridged off and returns were blocked. The blockage was created by thick clabbered up mud and formation cuttings. BJ continued to pump for 4 minutes before being instructed to shut down the pumps. During this time the mud returns broached the 20" conductor pipe and surfaced outside the cellar wall, spilling back into the cellar. PEAK guzzlers then cleared the cellar, the 3" ports in the 20" conductor pipe were then opened below the 13-3/8" hanger and cementing was resumed at a reduced rate due to guzzler limitations. An ARCO spill report was initiated for the potential of drilling mud under the matting boards. The report will be completed after the rig move and an inspection of the area. LESSONS LEARNED: Surface cement jobs with a 13-3/8" X 20" casing hangers, have the potential of bridging off at the 13-3/8" csg hgr & broaching the 20" to surface. Contingency plans & equipment should be in place during the cement job for this possibility		Bags were placed in oily waste dumpster for pick-up by tool services.	While attempting to circulate Cold Set III lead cement to surface on the cement job, the 13-3/8" casing hanger bridged off and returns were blocked. The contractor continued to pump for 4 minutes before being instructed to shutdown the pumps. During this
9/20/96	1996-IR-89798	Well Pad J	Crude Oil	5.00	The operator was bleeding down the well Pad separator to change out off gas meter. Off Gas leg was bled down from manual block valve to the flow element. Operator then opened the manual block valve to blow down the rest of the line and approximately five gallons of crude vented outside of the skid from the Off Gas 2" atmospheric vent line.		Exempt clean-up material was taken to ARCO Pad 3 for disposal.	The operator was bleeding down the well Pad separator to change out off gas meter. Off Gas leg was bled down from manual block valve to the flow element. Operator then opened the manual block valve to blow down the rest of the line and approximately fiv
3/3/96	1996-IR-90954	GC-1 Pad	Seawater	5.00	A Peak vac truck was taking on a load of seawater at the GC-1 WSW. An inspection plate gasket on the tank leaked approximately 40 gallons of seawater into the lined secondary containment area. Just before the driver was to leave, he put a vacuum on his tank to evacuate water from his hose. He then went inside to return his permit and during this time the vacuum pressure was not maintained and the water remained in the hose. When he returned, he disconnected his hose and leaked approximately 5 gallons of seawater onto the snow and ice. The contaminated snow was scraped up with a loader and hand tools and placed into a dump truck. The non-hazardous cleanup material was taken to Arco Pad 3 for disposal. All contaminants were contained on the pad and no tundra or water was affected. The truck was hauling seawater for Nabors Rig 18E.		The non-hazardous cleanup material was taken to Arco Pad 3.	A gasket failed on the inspection plate on Peak Vac Truck #K-124/T-201, while it was loading Seawater at GC-1. The truck leaked approx. 40 gallons of Seawater into the lined area at the Seawater Loading Station. It leaked another approx. 5 gallons acro
7/16/94	1994-IR-86039	GC-1 Pad	Diesel	5.00	While fuel truck #32107 was refueling a dewater tanker, the hose connection between the fuel nozzle and fuel hase failed causing the fuel hose to separate from the nozzle. The hose then whipped around before the oeprator was able to shut off the flow. A 966 loader with a bucket was used to scrape up the contaminated grave which was taken to ARCO Pad 3.		The contaminated gravel will be taken to Arco Pad 3.	While fuel truck #32107 was refueling a dewatering tanker, the hose connection between the fuel nozzle and fuel hose failed, causing the fuel hose to separate from the nozzle. The hose then whipped around before the operator was able to shut off the flow
7/19/98	1998-IR-89907	BOC Pad	Corrosion Inhibitor	5.00	A spill of approximately 5 gallons of Champion 1997-24 corrosion inhibitor was detected at the storage dock on the BOC pad. The spill appears to be the result of a crack in a weld or the shell of the chemical tote. Champion delivered the test chemical in an approved DOT #57 tote supplied by the Hoover Group (Serial # 96630) which was last tested in July 1997. The fluid capacity of the tote is 350 gallons. This particular tote had no vent to allow the release of built up pressure due to thermal expansion. The Chemical Foreman, APC Safety, and the environmental department were immediately notified of the situation when the spill was detected.		The gravel was washed to remove the product. The recovered fluids will be reused. The non-hazardous gravel was taken to ARCO Pad 3 for disposal.	A spill of approximately 5 gallons of Champion 1997-24 corrosion inhibitor was detected at the storage dock on the BOC pad. The spill appears to be the result of a crack in a weld or the shell of the chemical tote. The exact cause is unknown.
8/5/96	1996-IR-89505	Well Pad P	Produced Water	5.00	A Coil Tubing Connector came off and when the coil was pulled to the surface. Approx. 5 gallons of filtered produced water that was in the coil spilled onto the well house and sprayed on to the flowline and gravel behind the well house.		The used sorbents were placed in a NS Oily Waste dumpster for future incineration. The contaminated gravel was taken to Arco Pad 3 for disposal.	A Coil Tubing Connector came off and when the coil was pulled to the surface. Approx. 5 gallons of filtered produced water that was in the coil spilled onto the well house and sprayed on to the flowline and gravel behind the well house.
1/13/98	1998-IR-90318	Well Pad Q	Seawater	5.00	A Dowell coil tubing unit had performed an under reaming job on Q-3. While taking on seawater returns into the WSA Flowback Tank #3 the crew noticed a leak at the hammer union of an end cap that was on a different nozzle than they were rigged up too. The crew placed a half barrel under the leak and immediately notified WSA Safety and the Environmental Team. The spill was estimated to be less than 5 gallons and will be cleaned up after the coil tubing unit is off location.		Contaminated snow was taken to ARCO Pad 3 for Class I non-hazardous disposal.	While taking on seawater returns into a Flowback Tank the crew noticed a leak at the hammer union of an end cap that was on a different nozzle than they were rigged up too. The crew placed a half barrel under the leak.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/13/95	1995-IR-86755	WSW	Seawater	5.00	IM3 line outside Skid 301 developed a slight seawater leak in a high-point drain due to leaking valve and an improperly placed bull plug.		The non-hazardous gravel has been taken to Pad 3 for disposal.	The IM3 Seawater injection line outside of Skid 301 developed a leak at the high point bleed valve. This was caused by seawater leaking through the closed valve and the valve end blind pipe plug being loosely installed.
11/21/95	1995-IR-90797	Kuparuk Reservoir	Diesel	5.00	A diesel fuel return line fitting failed on a 14-G grader while excavating gravel from the Dead-Arm gravel pit near M pad. Approximately 5 gallons of diesel fuel was spilled onto the gravel surface. The leak was discovered quickly, plugged, and sorbents and containment placed under the fitting. The fitting was repaired, the spill was cleaned up, and the project completed. See LCIR 1480 for additional information on this piece of equipment.			While Alyeska was removing material from the gravel/overburden stock pile at the Kuparuk Dead Arm area, a fitting on one of the graders fuel lines broke, causing approximately 5 gallons of fuel to spill onto the ground.
2/22/98	1998-IR-90661	Drill Site 09	Seawater	5.00	Rig was pumping diesel for freeze protection and returning seawater to pits, seawater ran down the mud trough, through small holes in bottom of trough, then into conveyor trough below onto the pad outside. Approximately 5 gals of seawater was spilled on snow and ice. Environmental was notified and responded.		Bagged material was transported to Pad 3 and disposed as RCRA exempt waste.	Rig was pumping diesel for freeze protection and returning seawater to pit. Seawater ran down the mud trough through small holes in the bottom of the trough, then into the conveyor trough below to the pad outside.
5/24/95	1995-IR-98499	Drill Site 15	Crude Oil	5.00	"A needle valve on the oil leg of the artificial lift separator leaked between the body and stem make up area. A mist of crude hit the gravel pad, sides of building and pipes underneath the building."	A bobcat was used to remove the contaminated gravel. Absorbs were used to wipe down sides of building and the pipes. - The contaminated gravel was taken to Pad 3 West Pit on 5/25/95 to be held for future remediation. Absorbs were disposed of in NSB oi		"A needle valve on the oil leg of the artificial lift separator leaked between the body and stem make up area. A mist of crude hit the gravel pad, sides of building and pipes underneath the building."
2/20/95	1995-IR-100638	Lisburne Production Center	Produced Water	5.00	"Two actuator valves on a new de-sanding unit for water treater system were mislabeled by the manufacturer. The wrong valve was opened, thereby releasing produced water into a sump, which overfilled."	A loader and bucket were used to remove the contaminated snow. - The contaminated snow was taken to Pad 3 Snowmelt Pit on 2/20/95 to be held for future melting and injection.		"Two actuator valves on a new de-sanding unit for water treater system were mislabeled by the manufacturer. The wrong valve was opened, thereby releasing produced water into a sump, which overfilled."
8/19/96	1996-IR-89543	Well Pad R	Produced Water	5.00	Grease fitting check valve for isolation valve located in Module 550 for PWI Well R-15 failed and leaked produced water into module, filling up floor space then running over entry door lip and spilling onto ground.		The class II fluids were re-used on a coil tubing job on R-12. The class II gravel was placed in the accumulation bins on Santa Fe Pad for disposal at Arco Pad 3.	A grease fitting on the header block valve to R-15 injection well failed, causing approx. 300 gallons of produced water to leak inside Skid 550. Approx. 5 gallons leaked from the skid onto the Pad.
6/10/96	1996-IR-100644	Lisburne Production Center	Produced Water	5.00	"During sandjetting operation at facility sandjet pump that removes water from the collection tank broke. As a result, the tank overflowed and most of the overflow went into containment."	Used hand shovels to remove contaminated gravel. - Contaminated gravel taken to Pad 3 Solid Waste Pit for disposal on 6/10/96.		"During sandjetting operation at facility sandjet pump that removes water from the collection tank broke. As a result, the tank overflowed and most of the overflow went into containment."
10/4/94	1994-IR-98250	Drill Site 02	Crude Oil	5.00	"O-rings on wellhead tree cap blew out, allowing crude oil to spray inside the wellhouse. A small amount of crude sprayed through the cracks in the wellhouse walls onto the gravel pad."	Bobcat loader was used to scrape up the contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 10/7/94 to hold for future remediation.		"O-rings on wellhead tree cap blew out, allowing crude oil to spray inside the wellhouse. A small amount of crude sprayed through the cracks in the wellhouse walls onto the gravel pad."
12/11/93	1993-IR-88347	Well Pad F	Crude Oil	5.00	The Downhole Pump Truck Operator was mixing a Corrosion Inhibitor/Crude Oil mixture for batch treatments on F-Pad. While the tank was in the process of being filled, the Pump Truck Operator and Downhole Operator started discussing the treatment of F-14. During this discussion, the Pump Truck Operator was not paying attention to the tank that was being filled. It was at this time that the tank was overfilled. This incident resulted in approximately 5 gallons of crude oil being spilled on the pad.		All materials were taken to the T-Pad lined pit.	Chemical truck was being filled with crude oil from a vac truck. Operators were discussing flow rates and turned their attention away from the operation. The tank was overfilled.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/10/92	1992-IR-87255	Well Pad P	Methanol	5.00	Valve left open on tractor pump lunit while produced wter was put into the tank which forced the remaining methanol in the line and some produced water to come out the open valve. Most of the material was shoveled up immediately. The loader was used to scrape up remaining contaminants after the equipment was moved. The event was discussed with equipment personnel about the importance of checking valves prior to operation start-up, and to possibly cap the outlets and use a surface liner under the opening prior to cap removal.		Material was removed from the spill site and deposited into a Dowell Schlumberger melt tank for future disposal.	Valve left open on tractor pump unit while produced water was put into the tank which forced the remaining methanol in the line and some produced water came out of the open valve.
4/28/95	1995-IR-98486	Drill Site 11	Diesel	5.00	"When pressuring up diesel tank with air for burner, a check valve leaked and a block valve was left open allowing air to pressure up fuel tank causing diesel to spill out vent."	Metis/Cleanup		"When pressuring up diesel tank with air for burner, a check valve leaked and a block valve was left open allowing air to pressure up fuel tank causing diesel to spill out vent."
4/10/95	1995-IR-86995	Access Road	Diesel	5.00	Peak tractor trailer (K-62) was hauling miss. equipment from Badami to K Pad. At the time of the incident, the vehicle was approx. 1 mile north of K Pad, on the K Pad access road traveling south when a fitting on a crossover fuel line, broke. The driver plugged the hole and contacted the Environmental Dept. immediately. The spill area was contained and all contaminated material was removed. The NS spill report indicated approx. 5 gals of diesel fuel was spilled with no environmental impact to water or tundra. Ref: Spill Report No. 95-037		The contaminated material was taken to T pad for disposal.	A fitting on the crossover fuel line on the Peak tractor #K-62 broke causing approximately 5 gallons of fuel to spill onto the road between K pad the Pt. McIntyre.
12/11/94	1994-IR-98429	Drill Site 15	Crude Oil	5.00	Material released from an inoperative packoff/line wiper assembly during a wireline operation. The hydraulic line that pressures the packoff was clogged with ice.	Handshovels and a loader were used to removed the contaminated snow and gravel. - The contaminated snow and gravel were taken to Pad 3 West Temporary Plt on 12/11/94 to be held for future remediation.		Material released from an inoperative packoff/line wiper assembly during a wireline operation. The hydraulic line that pressures the packoff was clogged with ice.
5/19/95	1995-IR-98494	Drill Site 06	Diesel	5.00	Faulty positioning of ball valve handle on pump allowed diesel to drain into sump and slop out when pump was moved. Diesel spilled in a stream on the gravel pad.	Contaminated gravel was scraped up with scratcher and loader. - Contaminated gravel was taken to Pad 3 West Pit on 5/19/95 to hold for future remediation.		Faulty positioning of ball valve handle on pump allowed diesel to drain into sump and slop out when pump was moved. Diesel spilled in a stream on the gravel pad.
3/23/95	1995-IR-98582	Drill Site 18	Diesel	5.00	"Hardline union seal dislodged while diesel was being circulated from well to tanks. A surface liner was in place, but fluid sprayed over the containment area."	Sorbents were used to soak up fluids. Super sucker removed contaminated snow and gravel. - Sorbents were placed in lined oily waste dumpster. Contaminated snow and gravel were taken to the Pad 3 West Temporary Pit on 3/23/95 to hold for future remedia		"Hardline union seal dislodged while diesel was being circulated from well to tanks. A surface liner was in place, but fluid sprayed over the containment area."
3/4/95	1995-IR-98570	Drill Site 04	Methanol	5.00	"*Liquid in site glass on slop oil tank was frozen, giving false indication that tank was only half full. While bleeding down annulus, the tank was overfilled."	"A supersucker, loader and scratcher were used to remove the contaminated snow and gravel. - The contaminated gravel was taken to Pad 3 West Pit on 3/4, 3/5 and 3/6 to be held for future remediation."		"*Liquid in site glass on slop oil tank was frozen, giving false indication that tank was only half full. While bleeding down annulus, the tank was overfilled."
6/16/94	1994-IR-86233	Well Pad R	Crude Oil	5.00	On 6/16 at 6:30 am, gas bubbles with a very small amount of drilling mud appeared in the cellar of R-34. The well was then Shut in. Later that day at approximately 2:30 pm, lift gas was injected down the 13-3/8" in an attempt to diagnose the well problem. After shutting off the lift gas, water and gas appeared in the cellar. On 6/17, lift gas was again injected down the OA to determine whether the source was thermal or there was 13-3/8 to surface communication. After 16 minutes of injecting lift gas down OA, water/gas appeared in the cellar. The lift gas was shut off. The water brought residual oil from the cellar. This cellar oil along with fresh water flowed out of the wellhouse onto the pad. After the water was vac'd up, oil residue was left on ground.		The material that was vaccued up was placed in the GC1 dirty water tank. All contaminated gravel was taken to Arco Pad 3. The contaminated sorbents were placed in the oily waste dumpster for incineration at the NS Borough incinerator.	Communication between 13 3/8 surface casing and permafrost resulting in water and residue crude from inside the well cellar rising to the surface and on the pad.
7/16/97	1997-IR-98695	Drill Site 15	Crude Oil	5.00	"The 1/2? bull plug located at the downstream flange of lateral valve on well flowline had not been properly tightened, allowing crude to leak onto the pad."	Hand shoveled to oily waste bags. - Contaminated gravel was taken to Pad 3 West Pit for remediation on 7/16/97.		"The 1/2? bull plug located at the downstream flange of lateral valve on well flowline had not been properly tightened, allowing crude to leak onto the pad."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/23/97	1997-IR-89129	GC-1 Gas Section	Crude Oil	5.00			Exempt snow and gravel was taken to T Pad Pit.	After installation of a new flare header, an open valve on the header drain system led to back pressuring of an abandoned section of the old LP flare header.
2/8/93	1993-IR-87467	Well Pad G	Crude Oil	5.00	Field operator was depressuring the WPS so the gas meter could be changed out. The gas meter was isolated and vented to outside SK 56. Accumulated oil in vent line was blown onto wellpad. There was about a 5 gallon spill.		Contaminated snow , ice, and gravel were taken to the T-Pad disposal pt.	Oil remained in the line during a bleed-down operation of the test separator system. Oil was vented to the outside in the final stage of the operation.
9/23/96	1996-IR-98645	Drill Site 14	Crude Oil	5.00	O-ring on flowline check valve inside well house failed causing crude oil to drip into well cellar. A fine mist was sprayed on interior of well house.	Used absorbs to wipe crude from well house walls and shovels to clean well cellar. - Disposed of material at DS16 Pit.		O-ring on flowline check valve inside well house failed causing crude oil to drip into well cellar. A fine mist was sprayed on interior of well house.
7/7/99	1999-IR-98811	Drill Site 09	Crude Oil	5.00	A hose was not connected when bleeding pressure from the inner annulus to the bleed trailer. The crude blew out the end of the hose to the gravel pad.	Contaminaed gravel was removed with a bobcat and hand tools. The pipes were cleaned with citra-solve.		A hose was not connected when bleeding pressure from the inner annulus to the bleed trailer. The crude blew out the end of the hose to the gravel pad.
6/16/96	1996-IR-91492	Spine Road	Diesel	5.00	Approximately 5 gallons of diesel was found on the Spine Road at Frontier Corner. There is no indication where the diesel came from at this time.		The non-hazardous clean up material was taken to Arco Pad 3 for disposal.	Approximately 5 gallons of diesel was found on the Spine Road at Frontier Corner. There is no indication where the diesel came from at this time.
3/28/97	1997-IR-100659	PBOC	MEG	5.00	A valve failed on the line that goes into a heat exchanger on camp heating system and caused fluid to leak out of building onto snow covered pad.	Handshovels were used to remove the contaminated snow. - The contaminated snow was taken to Pad 3 East Pit on 3/30/97 to be held for future melting and injection.		A valve failed on the line that goes into a heat exchanger on camp heating system and caused fluid to leak out of building onto snow covered pad.
7/3/98	1998-IR-98750	Drill Site 11	Diesel	5.00	The valve was left open on the source tank allowing a leak inside the triplex pump to spill diesel out of the containment onto the gravel pad.	The bobcat was utilized to scrape up the contaminated gravel and the graven taken to Pad 3 West pit in the autocar for disposal. - Contaminiated gravel was taken to Pad 3 West Temp Pit on 7/3/98.		The valve was left open on the source tank allowing a leak inside the triplex pump to spill diesel out of the containment onto the gravel pad.
11/3/93	1993-IR-88967	Well Pad X	Lube Oil	5.00	VMS delivered portable air compressor to X-Pad, Skid 56, at 3 p.m. Nov. 2. The Night Operator working on the pad noticed an audible problem about 5 a.m. and shut the compressor down. At that time the oil leak was detected and reported to Environmental. There was no drip pan under the unit . The nature of the failure was such that a standard liner would not have contained a very large percentage of the spill. The pressure regulator was found frozen causing the PSV to lift allowing oil to blow out onto pad.		Oily sorbents were placed in the oily waste dumpster. Contaminated snow and gravel were taken to	Operators left compressor unit doors open, causing the pressure regulator to freeze. Pop-off valve opened, allowing oil to blow onto pad.
4/7/98	1998-IR-90549	Well Pad G	Crude Oil	5.00	During the GC-1 525 skid shutdown the GHX-2 flowline on G-Pad went close causing the test separator to over pressure bursting the ruputure disk & lifting the PSV. A small spill in the line pit was resulted.		Exempt Class II material was taken to ARCO Pad 3 for disposal.	Rupture disk blew on the test seperator in Skid 5 on G Pad allowing approximately 5 gallons of crude oil to spray onto the snow in the pit.
3/5/98	1998-IR-90703	GC-1 Gas Section	MEG	5.00	The heat trace line between skid 19 and skid 22 failed and dripped glycol on the pad. Failure exact failure point is yet to be determined.		Waste was taken to ARCO Pad 3 for non-hazardous waste disposal.	A union on a heat trace line at GC-1 failed allowing approximately 2 gallons of MEG to be released to the pad (outside of containment).
7/23/99	1999-IR-98815	Flow Station 1	Crude Oil	5.00	While turning out of FS1 the inside portion of unit contacted guardrail. This caused damage to control valve which caused the spill.	Little Red Services cleaned up with absorbs and bagged up to be sent to Pad 3. SRT returned to site with yarder & throughly cleaned area.		While turning out of FS1 the inside portion of unit contacted guardrail. This caused damage to control valve which caused the spill.
2/19/97	1997-IR-98716	Drill Site 03	Crude Oil	5.00	"While bleeding gas into slop oil trailer, fluids were pushed out of the vent because the demister unit extended too far into tank."	A bobcat and trimmer were used to remove the contaminated snow and gravel. - The contaminated snow and gravel were taken to Pad 3 E. Pit.		"While bleeding gas into slop oil trailer, fluids were pushed out of the vent because the demister unit extended too far into tank."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/11/95	1995-IR-91269	Well Pad E	Crude Oil	5.00	Newly hired pad operator started his shift by driving by all his wells. When he drove past E-20 he noticed gas vapor escaping the top of the well house. He approached on foot, cracked the door to assess the problem, then retreated to the E/I room and tripped the 24 volts to E-20 to shut the well in. After the gas dissapated, a stem seal leak was discovered on a flowline check valve.		The exempt clean up material (sorbents) were placed in oily waste dumpsters. The exempt contaminated gravel was placed in the accumulation bins on Sante Fe Pad for disposal at Arco Pad 3.	An O ring on a lock open check valve on well E-20 failed causing approximately 5 gallons of crude to spray inside the well house.
7/22/94	1994-IR-85887	Well Pad S	Produced Water	5.00	While making routine well inspections, the Pad Operator found the Surface Safety Valve leaking at the stem seal. The well was shut in for repair. Approximately 5 gallons of produced water was spilled into the well cellar.		None required.	A valve on well S-14 developed a leak causing approximately 5 gallons of produced water to spill directly into the well cellar.
6/8/92	1992-IR-87230	Well Pad N	Crude Oil	5.00	Slop tank overflowed and crude came out of the vent in skid 54. S-riser in flowline going in to Skid 54 had a flange leaking. Pump truck and a case 350 cat removed materials from the contaminated area and took them to T-Pad.		Conaminated materials taken to T-Pad .	Slop tank overflowed and crude came out of the vent in skid 54. S-riser in flowline going in to skid 54 has a flange leaking.
10/15/97	1997-IR-98623	Drill Site 06	Crude Oil	5.00	Downstream pressure gauge failed to read above 80 PSI while bleeding down well. A mist of crude came out of empty tiger tank.	Metis/Cleanup		Downstream pressure gauge failed to read above 80 PSI while bleeding down well. A mist of crude came out of empty tiger tank.
1/1/93	1993-IR-89860	Apex Gas Inj Drill Site	Drilling Mud	5.00	While drilling mud was being pumped through the mud injection line to AGI-4, the line developed a leak in a union by AGI-3.		Contamnants were placed in the mud injection system on the rig and injected as they normally are.	While drilling mud was being pumped through the mud injection line to AGI-4, the line developed a leak in a union by AGI-3.
5/17/93	1993-IR-88944	Well Pad J	Crude Oil	5.00	The 'J' Pad Operator had isolated the WPS off-gas meter for repair. He physically pulled a pipe plug to check the residual pressure. He determined it was <10 PSI. He opened the atmospheric vent off the off-gas pipe run. Oil mist (<1 Gal.) was discharged onto pad.		Exempt material was taken to T Pad. Used sorbents were taken to sorbent dumpster.	Residue in the gas line from a previous oil carryover went to atmosphere through vent during depressurization procedures.
12/5/97	1997-IR-98706	Drill Site 09	Crude Oil	5.00	Ball valve left partially open when operator bumped valve handle on vac truck during cleaning of inside of dog house.	Cleaned up using bobcat and autocar with box. - DS 16 Temp Pit.		Ball valve left partially open when operator bumped valve handle on vac truck during cleaning of inside of dog house.
5/29/95	1995-IR-87161	Well Pad Q	Crude Oil	5.00	While making rounds the pad operator discovered a spill under the block valve for the permanent dirty poor boy gas lift from Q-4 to Q-5. The valve is not leaking at this time but appears to have leaked out the trunion seal some time this past winter. This spill was not discovered until now due to snow coverage. This system was new in October of 1994.		The exempt clean up material was taken to T Pad for disposal.	A seal on the dirty gas lift jumper from Q-4 to Q-5 failed, causing approx. 5 gallons of crude to spill onto the Pad.
3/11/95	1995-IR-98578	Well Pad, Roads	MEG	5.00	"During SRT drill, plastic fan on cooling system of autocar disintegrated and punched hole in antifeeze reservoir."	"Handshovels, a bobcat and trimmer were used to remove the contaminated snow and gravel. - The contaminated gravel was taken to Pad 3 West Pit on 3/12 and 3/18/95 to be held for future remediation."		"During SRT drill, plastic fan on cooling system of autocar disintegrated and punched hole in antifeeze reservoir."
10/4/97	1997-IR-89355	GC-1 Pad	Fresh Water	5.00	A 10-gallon (5 gallons emulsion breaker/5 gallons fire water) spill occurred during cleaning of tanks in Skid 3031 for abandonment. The tanks were overfilled due to the sight glass being plugged with oil chemical material. Environmental was contacted. A bobcat with trimmer was used to remove contaminated gravel and ice. All materials were contained on the pad and have been retrieved.		Contaminated material has been placed in a bin. Analysis indicates that the material is non-hazardous. It has been taken to Pad 3 for storage until it is remediated.	During the process of cleaning tanks for abandonment, the tank was overfilled because the sight glass was plugged.
9/18/99	1999-IR-94241	Well Pad D	Diesel	5.00	A five gallon diesel spill was discovered infront of well D-9, the cause and source of the spill was investigated. Source of spill was likely to be a piece of mobile equipment. Actual cause was never determined.	Affected gravel was scraped up with a loader and hand tools.	Non hazardous gravel was taken to Pad 3.	Sorce of the spill is likely a piece of moble equipment. The spill has been cleaned up. This is a final report.
7/30/95	1995-IR-98281		MEG	5.00	"While hauling gravel, a max haul and a road grader collided, causing the radiator on the max haul to rupture."	Metis/Cleanup		"While hauling gravel, a max haul and a road grader collided, causing the radiator on the max haul to rupture."
5/24/92	1992-IR-87222	GC-1 Pad	Lube Oil	5.00	Operator accidently moved the wrong shut off valve and material vented through the relief valve on top of the truck. Material was soaked up with sorbent. Gravel was scraped up with a bucket loader. The contaminated sorbents were placed in the burnable dumpster and the gravel was taken to T Pad. Personnel were advised to apy closer attention to conditions at hand.		Contaminated sorbents placed in burnable dumpster. Gravel taken to T-Pad.	Operator accidentally moved the wrong shut-off valve and material vented through relief valve on top of truck.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/13/94	1994-IR-88534	Well Pad C	Crude Oil	5.00	A small spot spill was discovered under the C-30 lateral valve. Upon closer observation it was determined that the lateral valve flange had a slight drip, probably caused by stresses on the flange from subsidence. The line was realigned and the flange was torqued back to spec. Shovels were used to clean up contaminated gravel. Sorbents were also used to soak up some of the oil. Used sorbents were taken to NSB dumpsters. Gravel was taken to Pad 3. Contained on pad, no tundra or water affected.		Used sorbents taken to NSB dumpsters. Gravel will be taken to Pad 3.	The lateral valve on C-30 had a ring failure on the flange on the well side causing oil to spill onto the pad.
2/10/94	1994-IR-88588	Santa Fe Pad	Diesel	5.00	Insulation shack with onboard generator developed a leak, 5 gal. of #2 diesel accumulated under shack onto pad. Reported and confirmed by BP Environmental.		Contaminated material was taken to Arco Pad 3.	Worn fuel line on an insulation unit developed a leak causing fuel to run out of the unit and onto the ground.
11/25/92	1992-IR-86635	Well Pad S	Produced Water	5.00	Ball valve was left slightly open and was not noticed on inspection of the pipe before they pressured up the line. The contaminated material was shoveled into bags by the contractor and taken to A3W2.		Contaminated snow taken to A3/W2 melt tank for future recovery.	Ball valve left slightly open and was not noticd on inspection of the pipe before they pressured the line up.
5/24/95	1995-IR-98498	COTU Facility	Sewage	5.00	Sewage line developed a leak due to external corrosion. All material was contained in sump under building.	A supersucker was used to remove the material from the sump. - The material was disposed of at Pad 3 WIF on 5/25/95.		Sewage line developed a leak due to external corrosion. All material was contained in sump under building.
2/12/97	1997-IR-89212	Niakuk Pad	Diesel	5.00	The Dowell Kitty Frac unit had just completed freeze protecting Niakuk #17 and shutdown the unit when they noticed a small diesel spill. An investigation was conducted and determine the source of the leak to be a dresser sleeve on the low pressure side of the pump. There was a permanent containment dike, as well as a portable containment dike under the dresser sleeve which captured the majority of the spilled fluids. However, due to the direction of the leak approximately 5 gallons of diesel spilled on the pad. This particular unit receives maintenance every 400 hours or every 6 months which ever comes first.		Contaminated snow was melted down and reused for freeze-protection fluid.	A dresser sleeve on the low pressure side of a pump leaked during a freeze protection process at Niakuk #17.
4/29/95	1995-IR-87295	Price Pad	Diesel	5.00	During routine inspection of tank, diesel/oil was noticed to be leaking from inspection hatch onto the ground. This tank had not been in service for several months. The inspection hatch bolts were loose, and the gasket was leaking, resulting in approximately 5 gallons of diesel/crude spill.		The exempt contaminated sorbents were placed in a N.S. Borough dumpster for incineration. Exempt contaminated snow/ice/gravel was taken to T-Pad	An inspection plate on Tiger Tank #1 leaked approx. 5 gallons of Diesel with a trace of crude onto the Pad.
6/2/94	1994-IR-98203	Flow Station 1	Diesel	5.00	Overfilling during transfer operations allowed diesel to overflow into standing storm water on gravel pad.	Sorbent pads were used to pick up half the liquids. A supersucker was used to pick up storm water and remaining diesel. Contaminated gravel was scraped up with loader. - Contaminated sorbents were placed in oily waste dumpster. Gravel was taken to P		Overfilling during transfer operations allowed diesel to overflow into standing storm water on gravel pad.
12/4/95	1995-IR-98548	Well Pad, Roads	MEG	5.00	Material released from radiator on generator of a docked barge. Fluid contained on the deck and the ice.	Metis/Cleanup		Material released from radiator on generator of a docked barge. Fluid contained on the deck and the ice.
3/29/94	1994-IR-98473	C Pad	Lube Oil	5.00	Forks punctured drum while moving load due to heavy snow pack which hampered proper positioning of forks.	Handshovels were used to remove the contaminated snow. Cleanup is 100% complete. - The contaminated snow was disposed of at Pad 3 snowmelter pit on 3/29/94 to be held for future injection at the WIF.		Forks punctured drum while moving load due to heavy snow pack which hampered proper positioning of forks.
5/19/92	1992-IR-97354	Central Compressor Plant	Lube Oil	5.00	Material released from leak on bleed valve on lube oil supply line.- See 2/11/93 Spill Report to ADEC.	Metis/Cleanup		Material released from leak on bleed valve on lube oil supply line.- See 2/11/93 Spill Report to ADEC.
4/3/95	1995-IR-98588	Seawater Injection Plant	Seawater	5.00	Firewater drop developed a slow leak because of worn block valves. Seawater dripped onto the pad.	A scratcher and bobcat were used to remove frozen seawater and a thin layer of gravel underneath. - Contaminated gravel was taken to Pad 3 West Pit on 4/6/95 to hold for future remediation.		Firewater drop developed a slow leak because of worn block valves. Seawater dripped onto the pad.
8/10/94	1994-IR-98248	Drill Site 02	Crude Oil	5.00	Leaking grease zerk fitting on lateral valve was discovered by operator during routine inspection.	A loader and dump truck were used to pick up contaminated gravel and remove it from the site. - Contaminated gravel was taken to Pad 3 West Pit on 8/11/94 to hold for future remediation.		Leaking grease zerk fitting on lateral valve was discovered by operator during routine inspection.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/7/99	1999-IR-98832	Drill Site 02	Crude Oil	5.00	Failed o-ring in valve cap of triplex pump. Corrosion deterioration of seal may have contributed.	SRT responded and picked up material with loader and scratcher.	The material is being disposed at both pad 3 east snow pit and the G&I oily waste pit.	Failed o-ring in valve cap of triplex pump. Corrosion deterioration of seal may have contributed.
11/19/92	1992-IR-86670	Well Pad S	Lube Oil	5.00	Mechanical failure was due to breather tube freeze-up causing the motor to seize up and vent lube oil onto the pad. Material was shoveled up in red bags for disposal at A3W2. Extra holes will be drilled in the breather tubes to avoid further reoccurence.		Material was hauled to A3/W2 for thawing and oil recovery.	Mechanical failure due to breather tube freeze-up. Motor seized and vented lube oil onto the pad.
4/27/94	1994-IR-98175	Drill Site Maintenance	Diesel	5.00	Hose connection of the diesel nozzle on the Oiler Truck came off allowing material to leak out.	A bobcat and trimmer were used to remove the contaminated material. - The contaminated snow was taken to Pad 3 snowmelter pit on 4/27/94 for future injection at Pad 3 WIF.		Hose connection of the diesel nozzle on the Oiler Truck came off allowing material to leak out.
6/24/95	1995-IR-98268	Main Construction Camp (MCC)	Diesel	5.00	Vent tube on top of right side fuel tank came off. Fuel tank had been topped off that day.	Arco SRT. - Used hand shovels to remove gravel. Gravel sent to Pad 3 West Pit on 6/25/94.		Vent tube on top of right side fuel tank came off. Fuel tank had been topped off that day.
8/22/92	1992-IR-97763	West Dock	Diesel	5.00	Steel fuel tank had a hole in the side. Diesel leaked out while the tank was being moved.	Metis/Cleanup		Steel fuel tank had a hole in the side. Diesel leaked out while the tank was being moved.
3/12/92	1992-IR-100906	Lisburne Production Center	Crude Oil	5.00	Pressure valve leaked into the valve cavity and was released while connecting new pipe.	YES -		Pressure valve leaked into the valve cavity and was released while connecting new pipe.
8/14/98	1998-IR-90090	Well Pad K	Lube Oil	5.00	Doyon 16 experienced an hydraulic oil "leak" while drilling well K-06A. When the rig moved off K-06 on August 7 the area was cleaned up. The rig crews and toolpusher confirm that the hydraulic "leak" had not escaped the matting boards and herculite that defined the well cellar and surrounding area. An informal walkthrough was completed, however, a formalized Pad Inspection with the Pad Operator was delayed until after the rig moved off and post work began on the well. Since the origen of the spill was in question, the post-rig inspection paperwork was ultimately left unsigned and drilling has taken responsibility for this spill. However, the spill will not count against the Doyon 16 Rig Team.		The non-hazardous gravel was taken to ARCO Pad 3 for disposal.	Confirmation sample obtained at K-9-1 met target levels. See attached figure and data.
9/30/96	1996-IR-89806	Well Pad Y	Crude Oil	5.00	An isolation flange deteriorated and failed causing the discharge of crude on the Pad.		Exempt material taken to temporary permitted storage area at Santa Fe Pad pending disposal at Arco Pad 3 at a later date.	An isolation flange deteriorated and failed causing the discharge of crude on the Pad.
5/28/94	1994-IR-98195	West Dock	Diesel	5.00	Exact cause and source are unknown. Spilled material discovered on the gravel road.	A loader was used to scrape up the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 5/28/94 to be held for future remediation.		Exact cause and source are unknown. Spilled material discovered on the gravel road.
3/8/95	1995-IR-98571	Pad 10	Methanol	5.00	Melted snow was discovered in the containment dike at the Methanol loading area.	Slush and snow were shoveled up and placed in a drum for removal from the site. - Snow contaminated with methanol was melted and reused as freeze protect fluid.		Melted snow was discovered in the containment dike at the Methanol loading area.
3/5/00	2000-IR-94704	BOC	Sewage	5.00	BMT's were called at 7am, OCX 2 vacuum system not working. Discovered vacuum pumps full of fluid & investigated. Vent system was filled with fluid and had vented liquid on top of roof & down the side of the building.	Affected snow was removed with hand tools. The frozen material on the side of the building was scraped off and disposed of.	Recovered material was taken to Arco Pad 3.	One pump has been replaced. The other will be re-built and put back in service.
7/16/95	1995-IR-98275	Seawater Injection Plant	Diesel	5.00	"Fuel nozzle stuck in the """"on""""" position during the fueling of generator."	Sorbents were used to pick up free standing diesel. Used loader to pick up contaminated gravel. - Contaminated gravel taken to Pad 3 West pit for future remediation.		"Fuel nozzle stuck in the """"on""""" position during the fueling of generator."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/20/92	1992-IR-88102	GC-3 LPS Section	Crude Oil	5.00	At approximately 01:45 a.m., 09/20/92, the 30" LDF from Skid 450 to Skid 451 C Slugcatcher line was found to be leaking. The diverts in Skid 450 were immediately closed and the C Slugcatcher depressured. This facilitated the depressuring of the leaking line and the leakage stopped. A portable containment dike was placed outside Skid 451 underneath the leak and caught the remaining leakage off the pipe rack. Approximately 5 gallons of oil spilled on the pad. The majority of the spill leaked into Skid 451 as it was trapped inside the insulation and leaked out at the insulation break just inside the skid wall. The LPS Operator estimated the spill to be 30 gallons. Environmental cleaned up the 5 gallon spill outside and GC personnel are cleaning up inside the skid. The pipe is being repaired by sleaving a four-foot section just downstream of the 90 degree elbow. The repair is being done to allow us to put the Slugcatcher back in production and plans are being made for a replacement of the damaged section of pipe next year. Because of similar erosion on Slugcatcher inlet lines, the following action will be taken.		Sorbents were taken to a sorbent disposal dumpster. Contaminated snow and gravel taken to T-pad disposal pit.	A leak on the inlet to a "C" bank sludgecatcher developed because of corrosion.
7/19/97	1997-IR-98696	Drill Site 18	Diesel	5.00	"Fuel truck nozzle failed, spilling 5 gallons of diesel onto the gravel pad."	Used loader and hand shovels to clean up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit for remediation on 7/19/97.		"Fuel truck nozzle failed, spilling 5 gallons of diesel onto the gravel pad."
4/24/92	1992-IR-97695	Drill Site 16	Seawater	5.00	"Failure to close the riser valve before filling tank, caused it to overflow."	Metis/Cleanup		"Failure to close the riser valve before filling tank, caused it to overflow."
3/4/94	1994-IR-98447	MCC Fuel Dock	Diesel	5.00	Spill discovered on gravel pad at fuel dock. Exact cause and source unknown.	"Handshovels were used to clean up the contaminated snow. Cleanup is 100% complete. - The contaminated snow was recycled at Flow Station 1 on March 6, 1994"		Spill discovered on gravel pad at fuel dock. Exact cause and source unknown.
6/29/00	2000-IR-98350	Drill Site 15	Diesel	5.00	Fuel Truck 32-110 - Left nozzle on in holder then turned on pump inside cab.	SRT recovered product with absorbs and loader. Loaded materials into dump box for disposal at Pad 3 & absorbents disposed of at oily waste dumpster.		Fuel Truck 32-110 - Left nozzle on in holder then turned on pump inside cab.
5/13/00	2000-IR-98351	Drill Site 18	Crude Oil	5.00	"During cement retainer squeeze, o'ring failed releasing wellbore pressure."	SRT recovered product with loader and hand tools. Transported to Pad 3 for disposal.		"During cement retainer squeeze, o'ring failed releasing wellbore pressure."
5/23/93	1993-IR-86726	GC-3 Pad	Diesel	5.00	The source of the spill was unknown. The spill was located during routine environmental pad inspections. The contaminated material was scraped up with a 966 loader and hand tools. All contaminants were taken to Arco Pad 3.		All contaminants were taken to Arco pad 3.	Unknown. The spill was located during routine environenmtal pad inspection.
8/22/93	1993-IR-86692	VMS Building	Diesel	5.00	Valve on oilers truck was partially open on the line going to the Lister generator. Contaminated gravel was scraped up with a loader and placed in a dump truck to be taken to Arco Pad 3. The valve will either be removed or enclosed to prevent it from being bumped or hit accidentally.		Contaminated gravel taken to Arco Pad 3.	Valve on oilers truck was partially open on line going to Lister generator.
11/18/98	1998-IR-90103	GC-1 Pad	Diesel	5.00			Non hazardous material was taken to ARCO pad 3 for disposal.	A hose on fuel truck (32-107) failed while fueling a heater on GC-1 pad.
2/19/94	1994-IR-98433	Flow Station 3	Seawater	5.00	Sump pump and high level alarm malfunctioned causing sump to overflow.	Handshovels were used to cleanup the contaminated snow. Cleanup is 100% complete. - The contaminated snow was melted and was recycled at FS3 on 2/19/94.		Sump pump and high level alarm malfunctioned causing sump to overflow.
2/10/90	1990-IR-96332	Drill Site 09	Diesel	5.00	Opened needle valve on BOP bleed off and line overflowed slop oil tank	YES -		Opened needle valve on BOP bleed off and line overflowed slop oil tank
9/8/90	1990-IR-97099	Drill Site 09	Diesel	5.00	"Prior to Transport Valve Was Left Open, Allowing Diesel to Spill Out"	YES -		"Prior to Transport Valve Was Left Open, Allowing Diesel to Spill Out"
5/31/91	1991-IR-97438	Drill Site 09	Crude Oil	5.00	"Tanks from L5 fire were stored on pad. Snow melted, left substance."	YES -		"Tanks from L5 fire were stored on pad. Snow melted, left substance."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/13/99	1999-IR-94237	Well Pad C	Diesel	5.00	On 09/13/99, a P.E.Support Operator, working on B-Pad, discovered a diesel spill outside B-21 wellhouse. The spill was called into APC Safety and the Environmental Department. Efforts began to determine the source of the spill. On the evening of 09/13/99, at A1W2 warehouse, on Santa Fe Pad, the night grease crew started their grease truck(32-015)to warm up the engine. Upon returning to the truck, approximately 5 to 10 minutes later, the crew discovered the vehicle was leaking diesel. The crew shutdown the vehicle and placed absorb under the unit until the source of the leak could be determined and repaired. The crew then contacted the APC General Foreman and the Environmental Departement to report the spill. When the Environmental Lead Technician arrived at A1W2 to assess the damage, he questioned the wellhead crew as to whether or not they had conducted any work on B-Pad in the last couple of days. The wellhead crew said that they had work on B-21 the night of 09/12/99. Based on this information, it was confirmed that the grease truck (32-015)had caused the 5 gallon diesel spill at B-21. A discussion was then held to determine any other locations that the crew had work on the evening of 09/12/99. Spot checks of the various locations were conducted and another 5 gallon spill was revealed at C-Pad well #22. To summarize, the fuel injection system filter intermittent failure on grease truck 32-015 was responsible for diesel spill at three separate locations, B-21 (5 gallons), C-22 (5 gallons) and A1W2 warehouse on Sante Fe Pad (3 gallons). During the investigation process of this incident it was revealed that this particular grease truck has been taken to VMS repeatedly during the last year for various leaks within the fuel injection system and the generator. In fact there are 8 documented cases where the mechanics have had to repair leaks at various components of the fuel injection system. The mechanics have had to replace the fuel filter 3 times in 1999 alone. The grease truck currently has over 16,000 hours and 116,000 miles on it. The VMS Mechanics think that the PSV on the fuel injection pump may be experiencing intermittent failures causing back pressure to be released to the filter on the low pressure side of the fuel injection system. A spill review meeting was conducted on the evening of 09/15/99. The spill review committee consisted of the night crew Wellhead Technicians, Well Ops Team Leader, WSA Operations Manager, APC General Foreman, and APC Safety. The incident was reviewed and action items were determined to prevent the reoccurrence of a similar incident.		Gravel was taken to Pad 3 for disposal.	The truck has been taken to the Vehicle Maintenance Shop for repairs.
7/3/92	1992-IR-97720	Drill Site 05	Crude Oil	5.00	Packoff assembly leaked during pressure test to wellhead lubricator.	Metis/Cleanup		Packoff assembly leaked during pressure test to wellhead lubricator.
7/24/90	1990-IR-100739		Crude Oil	5.00	Faulty hammer union on injection line resulted in backflow on fluid.	YES -		Faulty hammer union on injection line resulted in backflow on fluid.
2/11/90	1990-IR-96334	Drill Site 13	Crude Oil	5.00	Drain valve leaked while bleeding pressure for maintenance on header	YES -		Drain valve leaked while bleeding pressure for maintenance on header
2/7/92	1992-IR-97867	West Dock Road	Lube Oil	5.00	Tractor blew the engine shaft seal leaking engine oil onto the pad.	YES -		Tractor blew the engine shaft seal leaking engine oil onto the pad.
7/5/93	1993-IR-97994	Well Pad, Roads	Crude Oil	5.00	Suction drain line left opened while tank was being steam cleaned.	Metis/Cleanup		Suction drain line left opened while tank was being steam cleaned.
9/13/93	1993-IR-98032	Drill Site 04	Diesel	5.00	Excess gas pressure caused material to mist out of open-top tank.	Metis/Cleanup		Excess gas pressure caused material to mist out of open-top tank.
5/17/91	1991-IR-97291	Drill Site 09	Methanol	5.00	A valve was left open which allowed material to overflow trailer.	YES -		A valve was left open which allowed material to overflow trailer.
5/7/92	1992-IR-97337	Central Compressor Plant	Lube Oil	5.00	Excess material escaped from venting hose during nitrogen purge.	Metis/Cleanup		Excess material escaped from venting hose during nitrogen purge.
5/10/96	1996-IR-98601	Drill Site 11	Crude Oil	5.00	"While bleeding well 11-7 annulas, warm gas melted snow/crude."	SRT spill van was used to recover the spilled liquids. - Contaminated liquids were taken to Pad 3 WIF on 5/11/96 to be injected.		"While bleeding well 11-7 annulas, warm gas melted snow/crude."
8/27/92	1992-IR-100819		Crude Oil	5.00	Pump on a vacuum truck seized causing fluid to drain from hose.	Metis/Cleanup		Pump on a vacuum truck seized causing fluid to drain from hose.
3/23/93	1993-IR-97420	Flow Station 1	Crude Oil	5.00	Operator opened wrong valve before hose was properly connected.	Metis/Cleanup		Operator opened wrong valve before hose was properly connected.
5/3/91	1991-IR-97283	Flow Station 1	Crude Oil	5.00	Camlock hose was still under pressure when it was disconnected.	YES -		Camlock hose was still under pressure when it was disconnected.
2/12/92	1992-IR-97871	Flow Station 1	Crude Oil	5.00	Offloading a tanker material sloshed out and over onto the pad.	YES -		Offloading a tanker material sloshed out and over onto the pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/8/92	1992-IR-97779	Drill Site 03	Crude Oil	5.00	"Overflowed slop oil trailer, while bleeding down lubricator."	Metis/Cleanup		"Overflowed slop oil trailer, while bleeding down lubricator."
5/13/93	1993-IR-100887	Point MacIntyre	MEG	5.00	Drum containing glycol was hit by vehicle and knocked it over.	Metis/Cleanup		Drum containing glycol was hit by vehicle and knocked it over.
4/1/92	1992-IR-97882	Drill Site 05	Diesel	5.00	Pump tank backflowed into a drum causing material to overflow.	YES -		Pump tank backflowed into a drum causing material to overflow.
5/10/92	1992-IR-97346	Drill Site 02	Seawater	5.00	Open drain valve and loose cup on the bottom of a filter pot.	Metis/Cleanup		Open drain valve and loose cup on the bottom of a filter pot.
11/9/92	1992-IR-97728	Drill Site 09	Seawater	5.00	Air discharge caused material in the Frac tank to splash out.	Metis/Cleanup		Air discharge caused material in the Frac tank to splash out.
1/10/90	1990-IR-96964	Flow Station 2	Methanol	5.00	Temporary line was not completely cleared before disassembly.	YES -		Temporary line was not completely cleared before disassembly.
2/13/93	1993-IR-98109	Drill Site 02	Crude Oil	5.00	Material released from fitting on trailer while being moved.	Metis/Cleanup		Material released from fitting on trailer while being moved.
7/1/90	1990-IR-97030	Drill Site 04	Diesel	5.00	Diesel drained through hole in rig floor that was not known.	YES -		Diesel drained through hole in rig floor that was not known.
1/14/90	1990-IR-100882	Lisburne Production Center	Crude Oil	5.00	Accumulator pot on vac truck had crude when truck was vented	YES -		Accumulator pot on vac truck had crude when truck was vented
10/2/94	1994-IR-98396	Drill Site 16	Diesel	5.00	Material released from a broken fuel pipe on a light plant.	A loader was used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 10/4/94 to be held for future remediation.		Material released from a broken fuel pipe on a light plant.
9/5/91	1991-IR-97538	Drill Site 11	Diesel	5.00	An object accidently hit the fuel valve causing it to open.	YES -		An object accidently hit the fuel valve causing it to open.
2/23/90	1990-IR-96343	Drill Site 13	Methanol	5.00	"During pressure test, an o-ring failed causing discharge."	YES -		"During pressure test, an o-ring failed causing discharge."
10/7/95	1995-IR-98534	Main Construction Camp (MCC)	Diesel	5.00	Hose line on fuel truck ruptured resulting in fluid spill.	Used loader bucket to remove contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 10/7/95 to hold for future remediation.		Hose line on fuel truck ruptured resulting in fluid spill.
3/23/92	1992-IR-97877	Drill Site 03	Crude Oil	5.00	Gas kick caused material to overflow from a flowback tank.	YES -		Gas kick caused material to overflow from a flowback tank.
8/29/93	1993-IR-98027	Drill Site 17	Diesel	5.00	Exact source and cause unknown. Discovered spill on pad.	A bobcat loader was used to remove the contaminated gravel. Cleanup is 100% complete. - The contaminated material was taken to the Pad 3 West Temporary Pit on 8/31/93 to be held for future remediation.		Exact source and cause unknown. Discovered spill on pad.
4/15/93	1993-IR-97896	Drill Site 15	Diesel	5.00	Overfilled diesel tank and overflowed thru the vent line.	Metis/Cleanup		Overfilled diesel tank and overflowed thru the vent line.
6/29/93	1993-IR-97987	Drill Site 11	Diesel	5.00	Exact cause and source unknown. Observed on gravel pad.	Metis/Cleanup		Exact cause and source unknown. Observed on gravel pad.
8/9/92	1992-IR-97378	J Pad	Lube Oil	5.00	The valve on the oil drain line was left partially open.	Metis/Cleanup		The valve on the oil drain line was left partially open.
4/1/92	1992-IR-100908		Diesel	5.00	Material released from an opened valve on a diesel tank.	YES -		Material released from an opened valve on a diesel tank.
11/20/90	1990-IR-97182	Drill Site 15	Diesel	5.00	Fuel supply valve was left open and backup valve failed.	YES -		Fuel supply valve was left open and backup valve failed.
11/14/94	1994-IR-98416	Flow Station 1	Diesel	5.00	The tank switching valve failed on fuel line of pickup.	Handshovels and a loader were used to remove the contaminated snow and gravel. - The contaminated gravel was washed and reused. The snow was melted and reused in wellwork activities.		The tank switching valve failed on fuel line of pickup.
10/11/92	1992-IR-97808	Seawater Injection Plant	Seawater	5.00	Material suspected to have drained from a vacuum truck.	Metis/Cleanup		Material suspected to have drained from a vacuum truck.
12/9/90	1990-IR-97201	COTU Facility	Diesel	5.00	"Sales valve out of position, leaked out of open vent."	YES -		"Sales valve out of position, leaked out of open vent."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/1/92	1992-IR-97371	COTU Facility	Diesel	5.00	Hose on the fuel truck did not shut off automatically.	Metis/Cleanup		Hose on the fuel truck did not shut off automatically.
10/27/00	2000-IR-95526	Well Pad Y	Diesel	5.00	A PE Support Operator (PESO) was bleeding off the inner annulus of well Y-3 into a bleed trailer when diesel was released from both vents and the upper hatch of the bleed trailer. Well Y-03 is an injector well and had an inner annulus pressure reading of approximately 2400 psig. The Y-Pad Operator contacted the PESO Foreman and requested the inner annulus pressure be bled off. A night crew PESO was dispatched to perform this bleed down. Normally this activity is conducted by bleeding the IA pressure back down the flowline via the S-Riser or down an adjecent flowline, providing they are low pressure wells. However, this option was not available because both adjecent wells were shut-in and freeze protected. Therefore the decision was made to utilize a bleed trailer to perform the task (this is always the last option utilized). The PESO Foreman informed the crew of a possible tubing and inner annulus communication. The crew was instructed to abandon the task if the well did not bleed down in a reasonable time based on pressure drop and volume of fluid being returned. There was a bleed trailer staged at Y-03. However, when the PESO employee checked the fluid level in the tank, it already had fluid to the 90% capacity level. The employee made arrangements to get another bleed trailer for the operation. The only available tank, which was approximately 1/3 to 1/2 full of fluids, was transported to location. The employee rigged up a 1/2 inch high-pressure hose from the inner annulus to the bleed trailer and began the bleed off operation. The employee stated that he had been bleeding off gas and fluids for approximately 1 hour, and had checked the tanks' fluid level 30 minutes into the job. The employee then went to the truck to warm up and change gloves. It was during this time that he looked at the bleed trailer and noticed fluids being released from the vent. He immediately shut in the inner annulus to stop the flow of fluids and gas into the bleed trailer. The employee then notified the night crew lead man of the spill. When the Lead PESO arrived on site, they wiped the fluid off the adjecent wellhouse and shoveled some of the contaminated snow from the pad. The decision was then made to notify the PESO Foreman of the spill at crew change. The Enviornmental Technicians were contacted later in the morning to assess the spill area. They determined that approximately 5 gallons of diesel had been spilled. There was 2 gallons on the snow-covered pad and 3 gallons in the containment of the bleed	Hand tools were used to clean affected snow and sorbent materials were used to wipe affected areas on the Wellhouse.	The sorbents were disposed of in a NSB oily waste dumpster. The contaminated snow will be melted and reused for freeze protection fluids.	A spill review meeting was held 10/27/00 at 6:00 P.M.
1/24/93	1993-IR-98025	Drill Site Maintenance	Lube Oil	5.00	Boomtruck leaked motor oil from engine while idling.	Metis/Cleanup		Boomtruck leaked motor oil from engine while idling.
7/10/93	1993-IR-98003	Drill Site 18	Diesel	5.00	Unknown spill discovered during spring pad cleanup.	Metis/Cleanup		Unknown spill discovered during spring pad cleanup.
12/13/91	1991-IR-97606	Main Construction Camp (MCC)	Methanol	5.00	Spilled material was discovered in the parking lot.	YES -		Spilled material was discovered in the parking lot.
3/27/93	1993-IR-97425	Drill Site 13	Diesel	5.00	FUEL FILTER GASKET LEAKED ON A MOBILE LIGHT PLANT.	Metis/Cleanup		FUEL FILTER GASKET LEAKED ON A MOBILE LIGHT PLANT.
7/27/93	1993-IR-97948	Central Gas Facility	MEG	5.00	Tubing on glycol heat trace on flare line failed.	SEE 11/1/93 RPT FOR DESCRIPTION--TYPED IN BY HAND. - SEE 11/1/93 RPT FOR DESCRIPTION-- TYPED IN BY HAND.		Tubing on glycol heat trace on flare line failed.
8/5/93	1993-IR-97956	Drill Site 01	Diesel	5.00	Mist discharged from vent line of a vacuum tank.	Absorbent pads and a vacuum truck were used to remove the comtaminated material. - The contaminated material was taken to Pad 3 SWDP on 8/6/93.		Mist discharged from vent line of a vacuum tank.
7/19/93	1993-IR-97943	Drill Site 01	Diesel	5.00	Hardline connection leaked during pressure test.	Metis/Cleanup		Hardline connection leaked during pressure test.
2/10/93	1993-IR-98103	Drill Site 03	Crude Oil	5.00	O-ring on wireline lubricator connection failed.	Metis/Cleanup		O-ring on wireline lubricator connection failed.
12/13/92	1992-IR-97851	J Pad	Methanol	5.00	Trailer was overfilled due to faulty site glass.	Metis/Cleanup		Trailer was overfilled due to faulty site glass.
2/9/93	1993-IR-98099	Drill Site 01	Crude Oil	5.00	Leak from failed o-ring on hardline connection.	Metis/Cleanup		Leak from failed o-ring on hardline connection.
1/5/93	1993-IR-97890	Drill Site 18	Crude Oil	5.00	Corrosion fitting failed on the well downcomer.	Metis/Cleanup		Corrosion fitting failed on the well downcomer.
11/16/92	1992-IR-100823	U-21 (EOA Building)	Diesel	5.00	Unknown spill. SEE 2/11/93 SPILL REPORT TO ADEC	Metis/Cleanup		Unknown spill. SEE 2/11/93 SPILL REPORT TO ADEC
10/25/92	1992-IR-97817	Drill Site 02	Seawater	5.00	Overfilled frac tank due to broken sightglass.	Metis/Cleanup		Overfilled frac tank due to broken sightglass.
1/10/90	1990-IR-96963	Drill Site 04	Crude Oil	5.00	Pump bleed down hose blew out of slop trailer.	YES -		Pump bleed down hose blew out of slop trailer.
6/23/91	1991-IR-97470	Drill Site 04	Diesel	5.00	Leaked from hole in secondary containment pan.	YES -		Leaked from hole in secondary containment pan.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/12/90	1990-IR-96337	Drill Site 13	Diesel	5.00	Fuel expanded and discharged out of the vent.	YES -		Fuel expanded and discharged out of the vent.
2/16/96	1996-IR-98664	C Pad	Diesel	5.00	Fuel tank transfer valve failed on a pickup.	Handshovels were used to remove the contaminated snow. - The contaminated snow will be melted and reused as freeze protect.		Fuel tank transfer valve failed on a pickup.
4/30/92	1992-IR-97701	Central Compressor Plant	MEG	5.00	Material leaked from heater line on a crane.	Metis/Cleanup		Material leaked from heater line on a crane.
3/5/92	1992-IR-97835	Drill Site 01	Crude Oil	5.00	Faulty greasehead fitting on wellhead valve.	YES -		Faulty greasehead fitting on wellhead valve.
7/6/92	1992-IR-97739	Drill Site 16	Diesel	5.00	Seal failed on pump during well treatments.	Metis/Cleanup		Seal failed on pump during well treatments.
9/25/91	1991-IR-97570	Flow Station 2	Crude Oil	5.00	Sprayed out of vent due to excess pressure.	YES -		Sprayed out of vent due to excess pressure.
8/12/90	1990-IR-97076	Flow Station 2	Produced Water	5.00	Flange leaked while bringing pipe on-line.	YES -		Flange leaked while bringing pipe on-line.
6/28/91	1991-IR-97476	Flow Station 3	Lube Oil	5.00	Slow leak from under turbine module seams.	YES -		Slow leak from under turbine module seams.
7/1/91	1991-IR-97482	Surfcoat Pad	Diesel	5.00	"Ripper cat hit old abandoned 3""""" line."	YES -		"Ripper cat hit old abandoned 3""""" line."
5/30/92	1992-IR-87223	VMS Building	Diesel	5.00	Leak discovered in Tioga heater fuel tank. Contaminated snow and gravel scraped up with shovels. The contaminated snow and gravel was taken to A3W2 melt tank for disposal. The leak in the tank was repaired.		Contaminated snow and gravel taken to A3W2 melt tank for diposal.	Leak discovered in Tioga heater fuel tank.
2/14/00	2000-IR-94645	Well Pad U	Diesel	5.00	During a routine walk around inspection of the well testing unit, the APC ground man noticed diesel leaking from a Tioga heater. He immediately shutdown the equipment and notified the Well Testing Operator. WSA Management and the Environmental Department were notified and clean up activities initiated. Multiple portable heaters are routinely used, during the winter months, on well testing operations to keep equipment from freezing. The well testing personnel make a walk around inspection of the location at least every 30 minutes to insure the integrity of equipment. The spill resulted due to a crack in the burner injection tube of the heater's fuel system. Tioga heaters are equipped with secondary spill containment; however, the crack in the burner injection tube was located outside the containment area and in the area of the burner's air intake.	A loader and hand tools were used to clean affected frozen snow on Pad	All material will be used for freeze protection.	Unit was taken to maintenance and repaired
8/31/91	1991-IR-97329	Drill Site 03	Crude Oil	5.00	Hardline elbow fitting developed a leak.	YES -		Hardline elbow fitting developed a leak.
5/5/95	1995-IR-98489	PBOC	Diesel	5.00	Fuel return line on pickup truck broke.	Sorbents were used to soak up fluids - Sorbents were placed in oily waste dumpster		Fuel return line on pickup truck broke.
8/11/93	1993-IR-98013	Drill Site 03	Seawater	5.00	Packing around a SWI ball valve failed.	Metis/Cleanup		Packing around a SWI ball valve failed.
12/14/92	1992-IR-97853	Drill Site 18	Methanol	5.00	Operator left valve open inadvertently.	Metis/Cleanup		Operator left valve open inadvertently.
6/14/90	1990-IR-97019	Flow Station 3	Crude Oil	5.00	Corrosion leak developed in commonline.	YES -		Corrosion leak developed in commonline.
4/7/96	1996-IR-98331	Well Pad, Roads	MEG	5.00	Broken radiator hose on flatbed truck.	"Contaminated snow was picked up by using shovels, absorbs and placed in oily waste bags. - Contaminated snow was taken to Pad 3 East Pit on 4/7/96 to be held for future remediation."		Broken radiator hose on flatbed truck.
6/14/91	1991-IR-97459	Drill Site 16	Crude Oil	5.00	Oil splashed out of liquid catch tank.	YES -		Oil splashed out of liquid catch tank.
2/3/90	1990-IR-97196	Drill Site 18	MEG	5.00	Glycol leaked from loose hose fitting.	YES -		Glycol leaked from loose hose fitting.
12/21/90	1990-IR-100756	Lisburne Production Center	Seawater	5.00	Agitator packing sprayed material out.	YES -		Agitator packing sprayed material out.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/4/00	2000-IR-94696	GC-2 Pad	Diesel	5.00	Vehicle #14-494 experienced a failed fuel filter housing gasket which caused a spill of 5 gallons of diesel fuel in the parking area. The vehicle was recognized as the cause of the spill, the engine was shut down, and the ACS Lead Tech was called as well as the OI Advisor. Clean up was begun and the vehicle hauled off to VMS.	Affected snow was chipped and shoveled up using hand tools. Affected gravel was removed using trimmer unit.	Diesel contaminated snow was melted for re-use. Gravel was hauled to Pad 3.	Vehicle was taken to VMS for repairs.
6/14/91	1991-IR-97462	Drill Site 12	Lube Oil	5.00	Small sheen observed on tundra pond.	YES -		Small sheen observed on tundra pond.
5/6/90	1990-IR-96974	Flow Station 2	Lube Oil	5.00	Leaked from a crack in engine block.	YES -		Leaked from a crack in engine block.
5/2/92	1992-IR-97334	Drill Site 02	Crude Oil	5.00	Material released from a pump seal.	Metis/Cleanup		Material released from a pump seal.
9/24/90	1990-IR-97112	Central Compressor Plant	Lube Oil	5.00	A main seal on a generator blew out	YES -		A main seal on a generator blew out
6/17/90	1990-IR-96311	Drill Site 04	Diesel	5.00	Diesel stain on pad was discovered.	YES -		Diesel stain on pad was discovered.
6/14/91	1991-IR-97460	Drill Site 17	Diesel	5.00	Leaked from faulty pump connection.	YES -		Leaked from faulty pump connection.
4/1/93	1993-IR-97430	Drill Site 17	Diesel	5.00	Injector line leak on Fuel system.	Metis/Cleanup		Injector line leak on Fuel system.
12/2/90	1990-IR-97190	Drill Site 03	Seawater	5.00	Camlock plug wasn't put in place.	YES -		Camlock plug wasn't put in place.
5/11/91	1991-IR-97289	Drill Site 05	Diesel	5.00	Fueltank line ruptured on pickup.	YES -		Fueltank line ruptured on pickup.
11/23/91	1991-IR-97592	Drill Site 09	Produced Water	5.00	Leak from fitting on grove valve.	YES -		Leak from fitting on grove valve.
11/6/92	1992-IR-97724	Drill Site 03	Diesel	5.00	Valve leak in Triplex pump unit.	Metis/Cleanup		Valve leak in Triplex pump unit.
10/15/91	1991-IR-97556	Drill Site 16	Diesel	5.00	Leak from light plant injector.	YES -		Leak from light plant injector.
8/29/93	1993-IR-98026	Drill Site 13	Diesel	5.00	Overfilled slop oil trailer.	Metis/Cleanup		Overfilled slop oil trailer.
7/20/92	1992-IR-97754		Diesel	5.00	Broken fuel line on vehicle.	Metis/Cleanup		Broken fuel line on vehicle.
7/10/92	1992-IR-97743	Flow Station 3	Diesel	5.00	Overfilled truck fuel tank.	Metis/Cleanup		Overfilled truck fuel tank.
7/8/93	1993-IR-97999	Drill Site 16	Seawater	5.00	Hole in hose to frac tank.	Metis/Cleanup		Hole in hose to frac tank.
8/14/92	1992-IR-97756	Well Pad, Roads	Diesel	5.00	Fuel line on truck leaked.	Metis/Cleanup		Fuel line on truck leaked.
3/3/91	1991-IR-97641	Drill Site 17	Methanol	5.00	Leaked from pump housing.	YES -		Leaked from pump housing.
6/24/00	2000-IR-95066	VMS Building	Diesel	5.00	Tioga heater # 88-521 was sitting out side the VMS running in order to burn the remaining fuel that was left in the tank. The fitting on the burner fuel line developed a crack and released approximately 5 to 10 gallons of diesel on the pad.	Affected gravel was scraped up with a loader.	The gravel was taken to Pad 3.	The fitting was replaced.
9/18/93	1993-IR-98038	Drill Site Maintenance	Diesel	5.00	Overfilled fuel tank.	Metis/Cleanup		Overfilled fuel tank.
1/6/90	1990-IR-100877	Lisburne Production Center	Crude Oil	5.00	Hose gasket failed.	YES -		Hose gasket failed.
2/17/93	1993-IR-98117	Flow Station 2	Diesel	5.00	Fuel line damaged.	Metis/Cleanup		Fuel line damaged.
2/14/99	1999-IR-93415	Kuparuk River	Diesel	5.00	A steam van that partially tipped at approximately 45-50 degrees when the ice it was sitting on collapsed on one side resulting in a spill of approximately 5 gallons of diesel on ice and steam probe melt water. Location was the Kuparuk bridges construction site on the east approach. The spilled material was contained. AIC and ACS personnel cleaned up the spill.		The sorbents were disposed of in an oily waste dumpster.	NRC notified.
9/4/89	1989-IR-96764	COTU Facility, Not specified	Crude Oil	5.00	"While flushing residual crude line, drylok valve was inadvertly disconnec"	Not specified	Not specified	Not specified
7/29/89	1989-IR-96738	COTU Facility, Not specified	Crude Oil	5.00	Crude backed up through check valve on blow down tank that did not hold.	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/27/89	1989-IR-96858	Drill Site 03, Not specified	Methanol	5.00	Camlock cap on methanol hose came loose dumping contents on ground.	Not specified	Not specified	Not specified
8/14/89	1989-IR-96751	Drill Site 14, Not specified	Diesel	5.00	"Pump failed, pressure backflowed to tank and blew fluid out vent."	Not specified	Not specified	Not specified
8/8/89	1989-IR-96744	Flow Station 1, Not specified	Crude Oil	5.00	Truck operator disconnected hose while it still had pressure.	Not specified	Not specified	Not specified
7/23/89	1989-IR-100803	Not specified	Diesel	5.00	Material leaked from a hose which wasn't properly attached.	Not specified	Not specified	Not specified
10/8/89	1989-IR-96779	Drill Site 14, Not specified	Diesel	5.00	O-ring failure on wireline stuffing box after pressure test	Not specified	Not specified	Not specified
11/3/89	1989-IR-96804	Flow Station 3, Not specified	MEG	5.00	Leak developed on produced water injection suction line.	Not specified	Not specified	Not specified
6/2/89	1989-IR-96662	Sag River, Not specified	Diesel	5.00	Sheen emanating from east bank above Sag River bridge.	Not specified	Not specified	Not specified
10/12/89	1989-IR-96788	Spine Road, Not specified	Methanol	5.00	Leaked out of tanker due to valve not closed tightly.	Not specified	Not specified	Not specified
12/17/89	1989-IR-96885	Well Pad, Roads, Not specified	Crude Oil	5.00	Vac unit parked in yard was leaking around agitator.	Not specified	Not specified	Not specified
7/15/89	1989-IR-96721	Flow Station 2, Not specified	Diesel	5.00	Diesel leaked on tundra from overturned vehicle.	Not specified	Not specified	Not specified
11/9/89	1989-IR-96817	Drill Site 06, Not specified	Crude Oil	5.00	Sprayed from tank vent caused by high foaming.	Not specified	Not specified	Not specified
5/5/89	1989-IR-100795	Lisburne Production Center, Not specified	Crude Oil	5.00	Leaking pump valve on vacuum truck.	Not specified	Not specified	Not specified
11/18/89	1989-IR-96846	PBOC, Not specified	Diesel	5.00	Leaking valve on long-haul truck.	Not specified	Not specified	Not specified
7/5/89	1989-IR-96708	Not specified	Diesel	5.00	Leaked from loose union.	Not specified	Not specified	Not specified
7/7/87	1987-IR-100692	Not specified	Crude Oil	5.00	Found after snowmel	Not specified	Not specified	Not specified
6/8/87	1987-IR-96217	Drill Site 04, Not specified	Diesel	5.00	Found stained grave	Not specified	Not specified	Not specified
6/8/87	1987-IR-96219	Drill Site 17, Not specified	Crude Oil	5.00	Found stained grave	Not specified	Not specified	Not specified
8/18/87	1987-IR-96235	Drill Site 18, Not specified	Crude Oil	5.00	Wind blew rsrv pt f	Not specified	Not specified	Not specified
12/3/87	1987-IR-100706	Lisburne Production Center, Not specified	Crude Oil	5.00	Annular line parted	Not specified	Not specified	Not specified
2/11/89	1989-IR-100866	Not specified	Crude Oil	5.00	Tank hatch spashed	Not specified	Not specified	Not specified
7/23/88	1988-IR-96476	Drill Site 03, Not specified	Diesel	5.00	Loose tank fitting	Not specified	Not specified	Not specified
2/10/89	1989-IR-96825	Drill Site 04, Not specified	Crude Oil	5.00	Pipe flange leaked	Not specified	Not specified	Not specified
10/24/87	1987-IR-96376	Drill Site 09, Not specified	Crude Oil	5.00	Drain valve opened	Not specified	Not specified	Not specified
6/21/87	1987-IR-96221	Drill Site 16, Not specified	Diesel	5.00	Overfilled trailer	Not specified	Not specified	Not specified
5/30/88	1988-IR-96359	Flow Station 1, Not specified	Crude Oil	5.00	Dome lid unlatched	Not specified	Not specified	Not specified
4/28/89	1989-IR-96631	Flow Station 1, Not specified	Crude Oil	5.00	Faulty check valve	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/24/88	1988-IR-96613	Central Compressor Plant, Not specified	Lube Oil	5.00	Purged new system	Not specified	Not specified	Not specified
7/21/87	1987-IR-96206	COTU Facility, Not specified	Diesel	5.00	Broke pump nozzle	Not specified	Not specified	Not specified
9/8/88	1988-IR-96500	Drill Site 09, Not specified	Diesel	5.00	Faulty valve leak	Not specified	Not specified	Not specified
3/13/89	1989-IR-96923	Drill Site 12, Not specified	Crude Oil	5.00	Cellar overflowed	Not specified	Not specified	Not specified
11/30/89	1989-IR-96861	Drill Site 15, Not specified	Diesel	5.00	Fuel line leaked.	Not specified	Not specified	Not specified
7/22/88	1988-IR-96473	Drill Site 16, Not specified	Crude Oil	5.00	Overfilled tanker	Not specified	Not specified	Not specified
6/7/87	1987-IR-96212	Drill Site 17, Not specified	Crude Oil	5.00	Non-seating valve	Not specified	Not specified	Not specified
7/11/89	1989-IR-96716	COTU Facility, Not specified	Crude Oil	5.00	Value left open.	Not specified	Not specified	Not specified
11/23/87	1987-IR-96386	Drill Site 09, Not specified	Crude Oil	5.00	overflow of tank	Not specified	Not specified	Not specified
7/22/88	1988-IR-96474	Drill Site 16, Not specified	Crude Oil	5.00	Hose not drained	Not specified	Not specified	Not specified
6/25/87	1987-IR-96192	Drill Site 01, Not specified	Diesel	5.00	Ball valve leak	Not specified	Not specified	Not specified
10/22/87	1987-IR-96375	Drill Site 09, Not specified	Diesel	5.00	Valve left open	Not specified	Not specified	Not specified
4/9/89	1989-IR-96950	Drill Site 13, Not specified	Crude Oil	5.00	Tank overflowed	Not specified	Not specified	Not specified
12/18/88	1988-IR-96580	Drill Site 16, Not specified	Diesel	5.00	Overfilled tank	Not specified	Not specified	Not specified
4/29/81	1981-IR-96039	Flow Station 3, Not specified	Diesel	5.00	Overfilled tank	Not specified	Not specified	Not specified
8/31/86	1986-IR-96156	Well Pad, Roads, Not specified	Diesel	5.00	Leaked out vent	Not specified	Not specified	Not specified
7/8/88	1988-IR-96458	Drill Site 03, Not specified	Diesel	5.00	Fuel tank leak	Not specified	Not specified	Not specified
7/25/87	1987-IR-96225	Drill Site 07, Not specified	Crude Oil	5.00	Leak in tubing	Not specified	Not specified	Not specified
11/27/88	1988-IR-96557	Drill Site 11, Not specified	Methanol	5.00	Hose ruptured	Not specified	Not specified	Not specified
10/1/88	1988-IR-96519	Drill Site 18, Not specified	Diesel	5.00	Hose ruptured	Not specified	Not specified	Not specified
3/13/89	1989-IR-96921	Drill Site 18, Not specified	MEG	5.00	Hose ruptured	Not specified	Not specified	Not specified
4/19/89	1989-IR-96623	Flow Station 3, Not specified	Diesel	5.00	Piping leaked	Not specified	Not specified	Not specified
6/26/88	1988-IR-96447	U-21 (EOA Building), Not specified	Diesel	5.00	Fuel line cut	Not specified	Not specified	Not specified
8/14/88	1988-IR-96483	Drill Site Maintenance, Not specified	Diesel	5.00	Tank leak	Not specified	Not specified	Not specified
7/9/88	1988-IR-96461	Flow Station 2, Not specified	Diesel	5.00	Unknown	Not specified	Not specified	Not specified
7/11/88	1988-IR-96463	Well Pad, Roads, Not specified	Diesel	5.00	Unknown	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/28/92	1992-IR-87251	Well Pad Z	MEG	5.00	The source of the spill is unknown. The spill was found during routine pad inspection made by Environmental personnel. A loader and grader were used to scrape up contaminated material for removal from site. The material was loaded into a dump truck and removed from the site. Material was taken to T Pad lined pit for summer recovery.		Material loaded into dump truck and removed from site. Material taken to T-Pad lined pit for summer recovery.	Unknown
4/28/92	1992-IR-87251	Well Pad Z	Methanol	5.00	The source of the spill is unknown. The spill was found during routine pad inspection made by Environmental personnel. A loader and grader were used to scrape up contaminated material for removal from site. The material was loaded into a dump truck and removed from the site. Material was taken to T Pad lined pit for summer recovery.		Material loaded into dump truck and removed from site. Material taken to T-Pad lined pit for summer recovery.	Unknown
4/21/95	1995-IR-86988	Well Pad Y	Crude Oil	5.00	Operator was attempting to safeout the off-gas turbine meter on the test separator for replacement. The test separator was shut in but still had 300 psi on it. The off gas meter upstream and down stream block valves had been closed by the operator. The meter can be replaced with a single block. The operator cracked open the atmosphereic vent, between the two closed block valves to depressure the meter run, and he went outside to observe the vent. No oil mist was observed. The operator then cracked the valve open further and continued to vent. After several minutes someone from outside the building came in and said that oil was misting outside on the ground. The operator closed the vent, investigated the spill area, called his supervisor, and notified environment. The operator then proceded to drain the entire separator contents (half full) to the drain vessel and bleed down the separator pressure also through the drain vessel. When the vessel was at zero pressure, the operator and the instrument tech continued with the meter replacement without further problem.		The exempt contaminated snow was hauled to Arco Pad 3 for disposal. Exempt contaminated sorbents were bagged up and disposed of in an oily waste dumpster.	
10/7/94	1994-IR-86344	Well Pad X	Seawater	5.00	While pumping a bullhead scale inhibitor job, the weep hole (approx. 1/16" diameter) in the pump van's hardline swivel joint began leaking sea water. Immediately after the leak had started, pumps were shut down and surface liners were placed under the leaking pipe. The leak resulted in a 5 gallon sea water spill. Prior to initiating the pump job, a successful pressure test to 2000 psi was achieved. The seal failed during the job at a pump pressure of 200 psi. The weep hole is intended to be an indicator of a seal leak in the swivel joint. The cause of the failure has not yet been determined.		Approx. 1/4 cubic yard of snow & gravel taken to Non-Haz storage bins on Santa Fe Pad. They will then be taken to Arco Pad 3 west Pit melting & injection	
12/25/00	2000-IR-95829	GC-3 Gas Section	Crude Oil	5.00	K-5500 had been shut down due to various alarm issues for over a week. The compressor was finally started on 12/23 but shut down due to low N2 seal pressure on 12/25. When trying to restart the compressor, V320A knockout Flare pressure control valves did not open, causing the reboiler to overpressure and lift their PSV's. Approximately 5 gallons of TEG spilled outside Sk. 20, 4 gallons outside containment and 1 gallon inside containment.	A loader was used to clean product on snow covered pad. Rags & absorbent pads were used to wipe down residual spray on module walls.	The contaminated snow was taken to Pad-3. Absorbent & rags were disposed of in an approved oily waste dumpster.	
6/24/00	2000-IR-95070	GC-3 Pad	Crude Oil	5.00	During a ASO pad inspection a oil leak was discovered outside Skid-8A under flowline C-97. The source of the leak was the corrosion coupon fitting on C-97. Investigation determined that the flowline had been previously freeze protected and had pressured up from thermal expansion causing the fitting to leak. Approximatly 5gallons of oil spilled into the utiliway boards under the flowline and into the utiliway.	Affected structure and utiliway was wiped down with sorbent and rags. Gravel was removed with hand tools.	The rags were bagged and placed in an oily waste dumpster. The gravel was taken to Pad 3.	
4/15/96	1996-IR-90770	Well Pad B	Produced Water	5.00	A 6" produced water line between GC3 Skid 301 and B Pad (line B-9 PWX flowline #93) developed an ice plug. The ice plug expanded and spilt the flowline (3"). The line was under approximately 2200 psi. Produced water sprayed from the split, through the insulation and across the access road, onto the snow on the tundra.		The exempt contaminated snow & ice was taken to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/13/99	1999-IR-94229	Well Pad B	Diesel	5.00	On 09/13/99, a P.E.Support Operator, working on B-Pad, discovered a diesel spill outside B-21 wellhouse. The spill was called into APC Safety and the Environmental Department. Efforts began to determine the source of the spill. On the evening of 09/13/99, at A1W2 warehouse, on Santa Fe Pad, the night grease crew started their grease truck(32-015)to warm up the engine. Upon returning to the truck, approximately 5 to 10 minutes later, the crew discovered the vehicle was leaking diesel. The crew shutdown the vehicle and placed absorb under the unit until the source of the leak could be determined and repaired. The crew then contacted the APC General Foreman and the Environmental Departement to report the spill. When the Environmental Lead Technician arrived at A1W2 to assess the damage, he questioned the wellhead crew as to whether or not they had conducted any work on B-Pad in the last couple of days. The wellhead crew said that they had work on B-21 the night of 09/12/99. Based on this information, it was confirmed that the grease truck (32-015)had caused the 5 gallon diesel spill at B-21. A discussion was then held to determine any other locations that the crew had work on the evening of 09/12/99. Spot checks of the various locations were conducted and another 5 gallon spill was revealed at C-Pad well #22. To summarize, the fuel injection system filter intermittent failure on grease truck 32-015 was responsible for diesel spill at three separate locations, B-21 (5 gallons), C-22 (5 gallons) and A1W2 warehouse on Sante Fe Pad (3 gallons). During the investigation process of this incident it was revealed that this particular grease truck has been taken to VMS repeatedly during the last year for various leaks within the fuel injection system and the generator. In fact there are 8 documented cases where the mechanics have had to repair leaks at various components of the fuel injection system. The mechanics have had to replace the fuel filter 3 times in 1999 alone. The grease truck currently has over 16,000 hours and 116,000 miles on it. The VMS Mechanics think that the PSV on the fuel injection pump may be experiencing intermittent failures causing back pressure to be released to the filter on the low pressure side of the fuel injection system. A spill review meeting was conducted on the evening of 09/15/99. The spill review committee consisted of the night crew Wellhead Technicians, Well Ops Team Leader, WSA Operations Manager, APC General Foreman, and APC Safety. The incident was reviewed and action items were determined to prevent the reoccurrence of a similar incident.		The non-hazardous material was taken to Pad 3 for disposal.	
7/19/00	2000-IR-95147	Well Pad W	Methanol	5.00	The field operators were pressure testing the flowline on well #18 at W-Pad after a Rig Workover job. One operator was in the manifold skid and another was at the wellhead. When the sweep gas was opened up, the Casasco fitting on the S-riser started to leak methanol. The sweep gas was immediately shut in and the lateral valve closed. The investigation revealed that there was no plug or coupon in the Casasco fitting. Approximately 5 gallons of methanol was released into the wellhouse. The Environmental Department was contacted and the contaminated gravel was cleaned up and disposed of properly.	Affected gravel was removed with a Super Sucker and hand tools.	Exempt material was taken to Pad 3	
7/30/00	2000-IR-95206	Drill Site 06	Methanol	5.00	During pressure testing of a tool, the plug valve was left open at the pump. Pressure built through the pump and blew a low pressure air compressor hose causing methanol to be spilled onto the gravel pad.	ACS representatives cleaned up material and prepared for remediation or disposal.	Pending ACS report.	
7/31/00	2000-IR-95204	Drill Site 05	Diesel	5.00	While breaking lubricator from tree, diesel sprayed into the employee's right ear canal. The lubricator was unstabbed with the swab valve still open. The employee was treated at EOA medical and given prescription medication.	ACS Reps to determine.	Pending ACS report.	
9/13/00	2000-IR-95427	Fuel Island	Diesel	5.00	Spilled diesel discovered at fuel island. Cause unknown. Could have been human error or mechanical problems with fuel shut off valve on pump handle. UPDATE: Spill was non-reportable. ADEC Notified. Removed from reportable spill stats. Bill Dawley 10/29/00	Contaminated gravel was removed using heavy equipment	Pad 3	
9/17/00	2000-IR-95429	MCC Fuel Dock	Diesel	5.00	Spill was noticed by a user of the fuel island. Possible overfill of vehicle or faulty fuel nozzel.			
1/19/03	2003-IR-418182	Main Construction Camp (MCC), MCC Pad	Hydraulic Fluid	4.50	Loader # 52-235 was working at the MCC facility clearing snow. While working in the parking lot the loader developed a hydraulic leak from a hose. The loader was taken out of service and the hose replaced. All other hoses and connections were inspected for integrity.	Loader and dump box were used to remove material.	8 cubic yards were brought to T pad for disposal.	
3/12/93	1993-IR-86716	Well Pad M	Crude Oil	4.50	The suction line valve in a flowback tank was found in the open position. The fitting was secured by a camlock cap. When the fluid level reached the open valve, the camlock cap failed and fluid seeped out onto the gravel pad. Contaminated material was shoveled up and put back into the flow back tank to be reused.		Put material into flowback tank for reinjection.	The suction line valve in a flowback tank was found in the opened position. The fitting was secured by a camlock cap. When the fluid level reached the open valve the camlock cap failed and fluid seeped out onto gravel pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/12/93	1993-IR-86716	Well Pad M	Produced Water	4.50	The suction line valve in a flowback tank was found in the open position. The fitting was secured by a camlock cap. When the fluid level reached the open valve, the camlock cap failed and fluid seeped out onto the gravel pad. Contaminated material was shoveled up and put back into the flow back tank to be reused.		Put material into flowback tank for reinjection.	The suction line valve in a flowback tank was found in the opened position. The fitting was secured by a camlock cap. When the fluid level reached the open valve the camlock cap failed and fluid seeped out onto gravel pad.
3/2/03	2003-IR-448334	Well Pad F, F-04	Seawater	4.00	Peak vacuum truck emptying Nordic #2 rig tanks in prep for rig move. Driver over-filled his truck. Other drivers noticed spill and alerted driver to shut down his operations.3-4 gal spill of KCL brine to pad.	The rig crew cleaned up the material with a loader and placed it in the mud cuttings tank.	Contaminated material was placed in rig mud cuttings tank and will be taken to Grind & Inject facility.	Update on cause: The Peak driver knew his truck was close to being full and shut approprate valves on his truck. He went to the rig floor to tell the hands to vent the suction lines so he could empty his suction hoses. Unknown to the driver the truck was still filling due to a faulty "cork ball valve". The valve's seat was crusted with old mud from previous hauls preventing a seal. The truck is in Peak's shop. Repairs are being made and a heigthened awareness given to prevent further accurrences.
3/15/05	2005-IR-1282326	C Pad, Onto pad/ground at C PAD Warehouse Chemical Offloading Dock, Non Process Area	Methanol	4.00	While offloading methanol, a chemical delivery truck operator removed a cap from a fill line on the truck. The line was used for connecting a portable tank (pup) located on the truck to the main tanker trailer. When he removed the cap from the line, he heard sounds that indicated material was moving through the fill line back toward the opening. He looked up, noticed that the valve handle was in the open postion, and quickly reached up to close the valve handle. Some material got pass the valve just prior to the operator closing the valve handle. The material exited the line under a small amount of force and did not go into the drip bucket that the operator placed under the line. The material sprayed forward of the tanker trailer onto the fender and on the pad/ground. It was on the fender and immediately adjacent to the truck tire. None of the material contacted the operator.	Alaska Clean Seas Environmental Technician and cleanup personnel were deployed within 15 minutes. Personnel used shovels and absorbent pads to clean up material from ground surface and snow. Material was placed in proper waste disposal bags and removed from site by Alaska Clean Seas Environmental Technician.	Material will be melted down and used for freeze protection.	In current practices, the hose from the portable tank to the main trailer tank is connected after off-loading of the material is already begun; at least 5 gallons of material is removed from the main trailer before the pup tank is connected to the main trailer. The cap on the main trailer line is removed while off-loading is occuring and thus a closed system is not in tact.
3/2/02	2002-IR-176784	Drill Site 15, DS 15 # 38	Methanol	4.00	CTU #5 and the work platform were rigged up on Drill Site 15 Well # 38 performing a perf job. After the perf guns were fired, an employee conducting a walk around noticed fluid dripping underneath the work platform in the cellar area. He radioed the coil supervisor and advised him of the drops, he then went up on the work platform to check the area in an attempt to find the source of the drip. He noticed fluid dripping from the injector, and again notified the coil supervisor. Operations were briefly suspended while the crew notified the Spill Response team. . The crew could not find the source or the fluid. They decided to increase the pressure on the pack-off and continued with operations. It was later determined that the pressure on the pack-off was set to low and this allowed fluid to discharge from the system. All notifications were made and the Spill Response team estimated that 4.5 gallons of 60/40 methanol were released with 1.5 gallons into secondary containment. The Spill Response Team returned to location and removed the contaminated material from underneath the rig-mats the following day after the coil unit moved from the well. No injuries resulted from this incident.	Bobcat, shovels, and dump box were used to remove contaminated material.	Contaminated gravel was brought to G&I for disposal.	Spill was initially reported as being 3 gallons. After the coiling tubing rig moved off location the estimate was brought up 6 gallons. Spill was reported to State Troopers. Contact person at the Troopers was Elane Renny. Note: on my earlier report I did not state that this was a 60/40,Methanol/water mix.
4/7/04	2004-IR-861231	Well Pad E, E-102, GC1	Diesel	4.00	Lubricator o-rings were seated with 200 psi of gas. Then crew pressure tested with diesel. When pressure in lubricator reached 500 PSI the diesel began to spray out onto the snow beyond the back left corner of the wellhouse. Crew responded with extra absorb to minimize spray and bled off the pressure at which time the spray stopped. The spray had come from a "weep" hole just above a two-piece Autoclave fitting (similar to a JIC) mounted onto the lubricator.	Shovels and a front end loader were used to remove the contaminated snow.	The snow was taken to a melt tank to be melted and taken to GC-2 for recycle.	Schlumberger Slickline has agreed to replace all such two-piece autoclave fittings on their lubricators with one-piece fittings. Also, E-Line has been alerted to inspect their gear for any such fittings.
11/21/03	2003-IR-686959	Flow Station 3, GPB, FS-3 Module 4932	Sewage	4.00	The shut off valve inside module was not closed the last time sewage was picked up which allowed sewage/water to get into the drain line which then froze and broke the drain pipe.	Material was recovered with hand tools and placed into oily waste bags for disposal.	Material was taken to Pad-3 for disposal.	Spill Investigation---Driver who last served this site was off the Slope when the spill was discovered. Based on site visits by SRT, it appears that the human performance difficulty caused this spill.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/24/04	2004-IR-816366	Spine Road, DS 9 to Hot water plant., Non Process Area	Transmission Fluid	4.00	Vehicle operator departed DS-9 in route to C pad. After crossing the Sag River bridge the operator discovered the transmission temperature out of range. The operator exited onto the Hot Water Plant pad and discovered the vehicle was leaking fluid. The vehicle transmission seal had failed while exiting DS-9 between DS-9-7 and DS-9-36 and continued 2.8 miles to the Hot Water Plant including crossing the Sag River Bridge.	Loader and dump box were used to remove material from road.	Material was brought to T-pad for disposal.	This spill was notified to NRC due to the fact that there may be a possibility some material dripping in to Sag River during Break up. NRC # is 714282.
9/3/04	2004-IR-1039093	Well Pad E, E-20, GC1	Crude Oil	4.00	A pumping crew was performing a MIT on the outer annulus of E-20, in preparation for a rig workover. Pump pressure had reached 2000 psi and was shut down, when the operator at the wellhead noticed fluid broaching from the flutes of the tree. Pressure was bled down and fluid receeded back. Calls were made to the non-emergency spill line, Safety and BP Supervisor. SRT came to location and reclaimed effected gravel from the cellar.	Some of the oil went back down into the flutes when the pressure was let off. The contaminated gravel at the base of the tree was removed with shovels and placed in oily waste bags for disposal transportation.	Contaminated material will be taken to the Grind & Inject Facility.	Due to the oil receeding back into the flutes we estimated that we recovered approximately 1-gallon of crude in the gravel.
3/13/07	2007-IR-2194271	Well Pad U, U-Pad at temporary Manlift staging area, GC2/SAT	Diesel	4.00	An Airport rentals manlift staged at U-Pad for the EWE project leaked diesel fuel onto the ground. The manlift was staged on U-pad on 3/12. On 3/12 containment pits were placed under the manlifts. Sometime during the day on 3/13 manlift #11-102 sprung a leak on a fuel line and had leaked onto the pad. A crew working in the area noticed the leak and immediately notified the Operator, ACS, and the Supervisor. Airport rentals was called and removed the manlift from the area for repairs. ACS determined the leak was approximately 4 gallons and felt like the fuel would have not hit the ground had the wind not been blowing. Large containment pits were built to drive the manlifts into while not in use.	A loader and hand tools were used to remove the contaminated snow from the pad.	All the snow was taken to the SRT accumulation bin and will be recycled at GC-1 for hydrocarbon recycle.	Containment was under the manlift but due to winds the diesel fuel spilled on the outside of the containment.
4/1/01	2001-IR-101151	NW Eileen	Lube Oil	4.00	Operator noticed the leak during his 360 walk around of the sideboom. The sideboom was parked on the ice road right of way across from the L-pad lay down yard by VSM # 71 though out the night. The leak started between last night and the morning. Approximately 3 gallons of 10 weight oil contacted the ground. The containment held all but the three gallons. ACS , Non emergency response number contacted, HCC HSE and management. All disposed of by ACS.	All of the oil in the contaiment pit was wiped out with absorbent pads. The contaminated snow and ice was removed with hand tools and placed in oily waste bags.	All of the contaminated absorbent material was placed in an approved oily waste dumpster. The contaminated snow and ice has been taken to Pad-3 for disposal.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300
4/6/01	2001-IR-101178	NW Eileen	Lube Oil	4.00	While loading pipe at “L Pad” lay down yard, when a light and buzzer came on to indicate that the equipment was low on oil. Operator immediately shut down equipment, made proper notifications and assisted in clean up operations. Approximately 1 gallon of motor oil impacted the lay down area. The HCC mechanic examined the crane and discovered the gasket had failed on the fuel filter. The oil had been changed 1 hour prior to this incident. The oil filter was also examined. There were no markings on the filter to show that it had been over tightened.	Clean up was done with shovels and collected in oily waste bags. The spill tray was cleaned out using sorbents.	The non-hazardous material was taken to pad 3. Sorbent material will be disposed of in the NSB oily waste dumpster.	This infomatino is being provided to fulfill the spill notification requirement under 18 ACC75.300
3/2/01	2001-IR-100948	Drill Site 09	Methanol	4.00	While rigging down the coil tubing unit on DS-9-11, hardline from the pump was disconnected and capped as per normal rig down procedure. Then an air compressor was used to blow down the 3" methanol supply hose to the methanol trailer. The 110 psi air supply passed into the unit's triplex pump and lifted the pump valves from their seats allowing the methanol in the pump to be released into the hardline piping that had been racked on the unit. While conducting a walk around inspection of the area, a Dowell employee noticed that a hardline seal had failed and 60/40 methanol was leaking from the capped connection. The crew immediately notified the Wells Group Supervisor and Environmental Department of the incident. A Spill Technician was dispatched and estimated 4 gallons of 60/40 methanol was released to the snow covered pad. There were no injuries as a result of this incident and there was never any threat of the fluid being released off the pad area. A spill review meeting was conducted on March 3, 2001. As 30 psi air pressure is enough to lift the pump valves from their seats the best way to control similar future event is to ensure the integrity of the system downstream of the pump. Therefore it was concluded that in the future supply hoses will be blown dry before disconnecting any hardline connections (note: the hardline is always pressure tested prior to the job).	Used hand tools to pick up contaminated snow and place in drums for melting.	Fluids will be used on approved freeze protection job as per SOP.	Spill is 100% cleaned up. Disposal will occur when suitable freeze protect job is available.
1/14/04	2004-IR-744800	Seawater Treatment Plant, STP Pad, FS1/SIP/STP	Diesel	4.00	A Manlift was dropped off at STP during the evening of January 13th for work to be done the next morning on reinsulation of a vent line. When the insulation crew arrived on location they performed a check on fuel and a walk around the unit to inspect and noticed diesel dripping from the unit. They shutdown the unit. There was no secondary containment used when the unit was dropped off the previous evening. The leak was called in to x5700 upon discovery. Inspection revealed a crack in the 3/8" fuel return line hose.	Contaminated snow was recovered with hand tools and placed into drums for recycle and the contaminated gravel was recovered with a bobcat and trimmer and placed into a dump box for disposal.	Contaminated snow will be melted down and sent in for hydrocarbon recycle and the contaminated gravel was taken to pad 3 for disposal.	NOTE: The melted fluids went to GC-2 fo Hydrocarbine recycle. This is the Final Report
6/15/05	2005-IR-1418806	SRT Shop, SRT Bullrail, Non Process Area	Hydraulic Fluid	4.00	In the process of loading a dump box on autocar 30-204, employee got dump box out of skid rails, and caught hydraulic fitting with the bottom of box causing hydraulic fluid to release to ground. Material was scraped up with a loader and disposed of.	Loader and dump box were used to remove contaminated gravel.	Contaminated material was brought to Pad 3 for storage and future remediation.	One fitting that was damaged has replaced. Equipment has been returned to service.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/29/01	2001-IR-98892	EWE Pipeline	Diesel	4.00	Snowblower got stuck in a snow drift. While pulling it out with D-7 dozer, the winch cable broke fitting on fuel tank. Aprox 2-3 gallons of diesel spilled befor D-7 operator could hold hose and a containment field was placed under leak. Machanic was called along with the spill clean up crew. Machanic stopped leak and HCC spill crew cleaned up with absorbant pads and removed the contaiminated snow. Five quarter bags of snow and two bags of absorbant were turned over to ACS.	The spill was cleaned up by Houston clean up crew by shoveling contaminated snow into bags.	Contaminated snow and diesel will be melted down and reused for freeze protection.	Spill was inspected by WOA spill technicians and confirmed to be 100% cleaned up.
1/10/06	2006-IR-1687471	Well Pad, Roads, Intersection near F & G pad on the WOA., Non Process Area	Propylene Glycol	4.00	On Jan 10, 2006 at approximately 1700 hours, a BPXA Contractor was driving a BPXA pickup truck. The pickup started to turn off the F Pad road towards G pad access road in the path of a contractor tractor/trailer unit approaching from the opposite direction. This resulted in a near head-on collision. There were no passengers in either vehicle. The truck driver received minor injuries. The pickup driver was unhurt. The tractor trailer unit skidded off the road and impacted a bundle of 4 production pipelines. The affected pipelines were de pressured as a precautionary measure. The pipelines were not breached. However, diesel spilled from the tractor trailer unit¿s fuel tanks and fluids (glycol) leaked from the pickup truck. The spilled fluids were recovered and reported to State and Federal agencies.	A loader with a rake attachment was used to pull the contaminated snow from the edge of the road. Next an excavator was used to remove the top layer of contaminated material from the spill area into the dump truck, which was then transferred to the T-pad storage pit. Workers with snowmachines and shovels were used to remove the contaminated snow from the tundra area. The tundra area was then flushed with approximately 90 barrels of warm water which allowed the area to be flushed 3 times total.	Contaminated snow is being stored at the T-pad storage pit where it is currently being melted for recycled.	Samples have been taken and clean up operations have been demobillized.
2/7/04	2004-IR-766584	Well Pad M, M-Pad, GC2/SAT	Crude Oil	4.00	At approximately 4:00 PM the Downhole pump crew experienced a material release resulting in approximately two (2) gallons of dead crude hitting the pad. All notification protocols were followed. The internal valve on the tanker was opened momentarily prior to the hose being properly connected to the pump truck. The operator noticed the mistake immediately and shut the valve. He then went to connect the fitting to the pump. As he removed the cap on the hose crude oil was released (although not immediately), spilling into containment and on the ground (mostly splatters on the gravel).	A loader was used to recover the contaminated snow.Sorbents were used to clean affected containment and hose.	The contaminated snow was taken to Drill site 4 grind and inject facility.The fluids in containment were sucked back into the pump truck. The sorbent material was taken to approved NSB oily waste dumpster.	A review was held on 2/07/04 with crew and CIC foreman and Greg Guild
4/14/03	2003-IR-483550	Drill Site 16, DS 16-13	Diesel	4.00	While relieving pressure from well through a choke,prior to pumping, the rig Tour Supervisor slowly cracked choke open to relieve pressure while the Co Rig Supervisor was watching the flowback tank. When the choke was opened, barely offseat, a gas bubble released through the top hatch of tank, the choke was immediately closed. A mist was released from the tank hatch causing an area app.25'X100', 2500 sq.ft. with an estimate of 4 gal of seawater/diesel mix-98%SW/2%diesel mix landing on the ice covered pad and the majarioty landiing in the reserve pit.	contaminated material is being removed with hand tools and light equipment.	Material was placed into SRT dumpster and will be taken to G&I for disposal.	spill has been cleaned up, and this will be the final report.
7/30/02	2002-IR-278038	Seawater Treatment Plant, STP Module 4913	Corrosion Inhibitor	4.00	While off-loading Oxygen Scavenger from delivery transport product leaked from a pin hole leak on gravity fed fill line.	Recovered material with wet vacuum and mop.	Material benefically reused for intented purpose.	Immediate notifications made to the appropriate agencies.
3/11/04	2004-IR-832968	Oxbow Road, An estimated 30 yards west of the Oxbow road in the vicinity of the FS-3 intersection. , Non Process Area	Hydraulic Fluid	4.00	Hydraulic hose failure on man-lift 54-008 while boom was elevated resulting in pressure release and an air spray of fluid. The leak was stopped and the boom returned to the stowed position. Hydraulic fluid was dispersed by the wind an estimated 25 yards.SRT responded, contacted ACS, who came with equipment and cleaned the material from the ground.	Contaminated snow and ice was recovered with a bobcat and placed into a dumpbox for disposal.	Contaminated material was taken to T-Pad for disposal.	Immediate verble notifications were made.
8/8/05	2005-IR-1494217	C Pad, C-Pad Chemical Room, Non Process Area	Developer/ Replenisher	4.00	A CIC employee entered the c-pad chemical room and noticed a pallet on the ground that appeared to have fallen. Employee then reported the event to the C-Pad Team Lead. Team lead looked into the room and obseved the same pallet on the ground with liquid also on the ground. Team Lead also observed that the material was Corrosive. Evacuated the building and called the emergency spill line.	SRT Team has cleaned up the area and disposed of all contaminated material.	Material was sent to Hazarous Waste Coordinator, and will be handled in accordance with State, and Federal Regulations.	Note: Agencies were notified of release.
8/8/05	2005-IR-1494217	C Pad, C-Pad Chemical Room, Non Process Area	Fixer/ Replenisher	4.00	A CIC employee entered the c-pad chemical room and noticed a pallet on the ground that appeared to have fallen. Employee then reported the event to the C-Pad Team Lead. Team lead looked into the room and obseved the same pallet on the ground with liquid also on the ground. Team Lead also observed that the material was Corrosive. Evacuated the building and called the emergency spill line.	SRT Team has cleaned up the area and disposed of all contaminated material.	Material was sent to Hazarous Waste Coordinator, and will be handled in accordance with State, and Federal Regulations.	Note: Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/25/01	2001-IR-98868	Drill Site 04	Crude Oil	4.00	DS-4-7 Job description: Performimg a bottom hole pressure and neutron log with 0.39 inch cable. While pulling out of hole the work crew had an indication of loss of grease seal at the return line. A crew member immediately checked the air gauge on the Winchman's panel and discovered a pressure drop. The wireline winch was stopped. The pumping of dead crude down hole was stopped. The line wiper pressure was increased to divert flow down to the return line. The crew member proceeded to the pre-prepared secondary air source for the grease pump and connected. The air pressure was increased to the required pressure and the grease seal was re-established. The above steps occurred very promptly and minimized the impact. Prior to the grease seal being re-established a fine mist of crude oil came out of the top of Lubricator, which is approximately 60 feet above ground level. The wind carried the fine mist to the pad and approximately 200 feet off the pad. The wind speed at the time of incident was approximately 15 to 20 mph. The immediate supervisor and SRT notifications were made and clean up initiated.	Used heavy equipment to scrape pad surface. Tundra will be cleaned manually using shovels and other hand tools.	103 cu. yds. of lightly contaminated snow taken to pad 3 for disposal	spill is approximately 90% cleaned up.
2/25/04	2004-IR-815559	C Pad, C-pad chemicval loading area., Non Process Area	Corrosion Inhibitor	4.00	Tanker Delivery driver had finished filling his #1 tanker compartment and proceeded to fill #3 compartment, the percentage gauge indicated 0% in the #3 compartment, after commencing the filing operation he watched the percentage gauge begin to climb. At approximately 15% according to the percentage gauge, chemical sprayed out the tank vents located on top of the tanker, the transfer pump was shut down and all notifications were made. SRT cleaned up approximately 4 gallons of corrosion Inhibitor from the lined loading area.	Hand tools, Bobcat, and donp box were useed to remove contaminated material.	Material was brought to T pad for disposal.	Notifications were made to agencies.
8/21/07	2007-IR-2377446	Access Road, Access road between H and Y-pads, Non Process Area	Transmissio n Fluid	4.00	While driving from H to Y-pad a fuel truck (32-109) operator noticed the truck seemed to slip into neutral and then loose drive altogether. The operator started to assess the situation and quickly noticed fluid draining from the transmission area. A drip liner was placed underneath the leak, SRT was notified and the Supervisor called. The cause of the failure was a transmission hose fitting. Due to the high winds a small amount of the fluid was sprayed onto the surface of a pond adjacent to the roadway. UPDATE: Total volume released was 4 gallons, volume that went to tundra/water was < 1 cup (just a mist) as per the WOA Lead Spill Tech 8-21-07 12:00hrs	A bobcat and dump truck was used to recover the contaminated gravel on the road. A vac truck was used to recover the sheen on the water adjacent to the road.	The contaminated gravel was taken to Pad-3 for storage and future remediation. The recovered fluids were taken to pad 3 for class 1 injection.	Immediate notifications were made.
1/15/05	2005-IR-1209055	Drill Site 12, DS-12 well 29, FS1/SIP/STP	Corrosion Inhibitor	4.00	Both Chemical operator and Drill site operator noticed a pressure drop and rate increase on the SETCIM chemical screen. The drill site operator found the leak before the chemical operator got there. The leak was a pinhole in the tubing (chemical heat-up loop) on the s-riser. SRT was notified. The system was de-pressured and the tubing was taken off for analysis.	Contaminated area was wiped up with chem clear and rags. Contaminated gravel was recovered with a super sucker.	Contaminated rags were disposed as oily waste. The contaminated gravel was taken to Pad-3 for disposal.	Immediate notifications were made.
4/1/05	2005-IR-1305449	C Pad, Outside C-Pad Chemical Building, Non Process Area	Methanol	4.00	A Chemical Technician discovered a small hole in the compacted snow in front of the cpad bulk chemical office. After closer investigation it was identified as a methanol release, a transport had left the site and traveled over to the main methanol tank for offloading. The driver was notified, control measure where taken and the tanker was drained. After close evaluation it was determined that the methanol leaked from a faulty seal in the under tank manifolding of the tanker. The tanker was completely drained and driven to Fairbanks for repair. The material slowly leaked from the faulty seal over the ten hours that the unit was parked.	Contaminated snow was recovered with hand tools and placed into oily waste bags.	Material will be reused for freeze protection.	Immediate notifications were made.
3/24/02	2002-IR-189413	Main Construction Camp (MCC), MCC Projects wing 9	Diesel	4.00	During a fueling operation at MCC Projects parking lot, the fuel nozzle separated from the fuel hose causing a diesel spill of 4 gallons to the pad. Fuel personnel were able to control the hose and shut down the operation minimizing the spill. HCC personnel contained spill, made proper notifications and assisted in clean-up operations.	Contaminated material was recovered with loader, and scratcher,and shovels	Material was melted down,and brought to Flow 1 for recycle.	Material will be recycled.
7/18/06	2006-IR-1910230	GC-1, GC-1 Skid 25, GC1	Crude Oil	4.00	While doing safe out for GC1 TAR, EST-191C oil sub-cooler failed causing fluids to enter cooling water system and overflow V-157 cooling water storage drum. Fluids overflowed through vent line and ran down module wall into secondary containment. Wind cause fine oil spray on process piping and outside secondary containment.	The contaminated gravel on the pad was removed using heavy equipment and hand tools. The free-standing liquids inside secondary containment were removed using a vac truck. The facility walls and pipe work were wiped with absorbent pads and rags.	The 28 gallons of free-standing liquid was transported to Pad 3 for disposal. The contaminated gravel was taken to the DS-4 Grind & Inject facility. The contaminated absorbents and rags were taken to an approved NSB oily waste dumpster.	
6/13/04	2004-IR-937490	Well Pad Z, Small staging pad located at the Z-Pad access road, GC2/SAT	Hydraulic Fluid	4.00	At approximately 10:20 am on 6/13/04 an unknown caller reported an "oil spot" on a small staging pad located near the Z-Pad access road. Upon inspection by one of the ACS spill techs, it was discovered that approximately 4 gallons of hydraulic oil had spilled onto the gravel pad. A small amount of the oil, approx. 1 qt, ran down the side of the pad into a small impoundment. Upon the discovery that the material had spilled into the water off pad, The Environmental Advisor was called to initiate the immediately required spill reports.	The contaminated gravel was removed with a loader and the hydraulic fluid was cleaned up from the pond surface using sorbent pads.	The contaminated gravel was manifested to Pad 3 as Class I spill clean up waste. The contaminated sorbents were placed in oily waste bags and disposed of in the oily waste dumpster at the WOA waste collection site.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/22/03	2003-IR-419114	Well Pad V, V-103	Diesel	4.00	During a Schlumberger Frac job on V-103, crew was in the process of changing a pressure transducer in the hardline configuration. At the time of removing the transducer there was no fluid in the lines. A crew member had shut a 1" valve, isolating the transducers but did not fully close the valve. While the transducer was being replaced, the POD blender was being primed with diesel. A 4" flapper valve was closed from the pod blender isolating the pumps and hard lines. The flapper valve leaked by and filled the lines to the 1" valve that was not completely closed. This caused a 4 gallon diesel spill to a 6' x 8' area of snow covered gravel pad. Notifications were made to QHSE and SRT, who came to location for investigation. Crew layed absorbent and began to shovel up contaminated area. SRT will follow up with final clean up after the job and rig down is completed.	All of the contaminated snow was removed from the gravel pad using hand tools and heavy equipment. It was then placed in a dump truck for transportation to disposal location.	The contaminated snow was taken to the environmental warehouse and shoveled into melt bins. Once melting is complete the material will be taken to a recylce facility.	
8/28/04	2004-IR-1029953	Main Construction Camp (MCC), Parking area west of MCC alongside tundra pond, Non Process Area	Propylene Glycol	4.00	A third party contract driver hauling a refrigeration (food) trailer was parked just off the roadway on the southwest side of MCC. Line haul tractor trailer drivers park their rigs here regularly to rest, sleep and eat at MCC. The rig was parked along the pad in close proximity to the tundra pond. While the truck was parked in the area, idling, with the driver sleeping in the bunk area, the radiator hose failed and released glycol to the pad. Upon discovery, another line haul driver notified security. Security placed containment under the vehicle and called SRT. SRT responded for evaluation and clean up. SRT discovered that a portion (1 quart) of the glycol that leaked and did not soak into the pad ran into the pond. A mechanic from Peak Base responded to repair the vehicle and replaced 4 gallons of lost anti-freeze.	Contaminated gravel was recovered with a bobcat and hand tools and placed into waste bin. The material that went into the ponded water on the tundra was contained with shore seal and absorbent boom. Then the contaminated water was pumped into a fast tank where it could be sampled, then placed into bung type drums to await analytical data.	The contaminated water and gravel was taken to Pad 3 for disposal. The material was tested for TCLP metals and the samples came back under the regulartory limit.	
2/6/05	2005-IR-1234188	Well Pad Y, Y-Pad , GC1	Hydraulic Fluid	4.00	On 2/6/05 at approximately 0955, Water Truck #85049 was at Y-Pad offloading water to Nordic 1. He noticed a small amount of hydraulic oil under his truck. He put absorb over the oil and laid a containment down on top of the absorb. He then called VECO dispatch to ask if he should shut down or finish offloading the fifty barrels that he still had on. It was at this time that the operator noticed in his mirror, steam coming from under his truck. He immediately exited the truck and shut down the pump. The pressure hose on the hydraulic pump had ruptured spilling two gallons of hydraulic oil to containment and two gallons that contracted the ground. The operator then shut in all hydraulic valves and notified the company man. The company man then notified VECO dispatch and proper notifications were made. The spilled material was cleaned up by SRT.	The contaminated material was cleaned up using hand tools and a loader scratcher. It was then placed in oily waste bags for disposal transportation. Free standing liquids were soaked up with absorbent material.	Contaminated absorbent material was taken to an approved NSB oily waste dumpster. The contaminated snow has been taken to T-Pad storage pit.	
7/23/02	2002-IR-271935	Well Pad R, R-36	Crude Oil	4.00	R-36 is a long term shut in well. Static pressures are checked by Pad Operators once per week. The readings for this well were taken the week of July 15th, and the OA had 250 psi on it and the cellar was clean. The week of July 22nd, the Pad Operator found the cellar with a skim of oil on top of the snow melt water and investigated further. The Pad Operator found the gauge manifold bent at the 1/2" street tee and observed a drip comming from this thread. He found the annulus to at slight positive pressure and bled this off to allow a gauge and needle valve change out. This was done and the well's OA was secure. The Pad Operator called 5700 to report the leak and the Environmental Technician was called to take care of the crude and water inside the cellar containment.	All of the oil and water was removed from the well cellar with a vac truck. The oil ring on the cellar wall was wiped off with absorbent pads.	All of the contaminated oil and water was taken to Pad-3 for disposal. The absorbent pads were placed in an approved oily waste dumpster.	
9/16/04	2004-IR-1056665	Well Pad L, L-201, GC2/SAT	Corrosion Inhibitor	4.00	Estimated 4 gals of corrosion inhibitor was spilled into the cellar of L-Pad, Well 201 due to a loose fitting	The liquids were removed using a hand pump. Sorbent materials were used to clean affected wellhead.	The sorbents were taken to an approved oily waste dumpster. The liquids were taken to the GPB waste corrdinator for proper disposal.	
3/14/03	2003-IR-459070	Well Pad C, C pad in front on C-26	Hydraulic Fluid	4.00	While picking up lubricator with Coiled tubing unit #4 the crew encountered a hydraulic fluid spray coming from the injector trolly area. The crew notified the ops cab to secure the unit and shut down the deck engine. This stopped the flow of fluid. SRT, Pad operator, security, Company representatives were notified. The crew stood down until SRT arrived giving direction to the clean-up. It was determined to be a 4 gal. Hydraulic fluid spill due to a connection failing on a hose. Safety meeting held and clean-up began.	A loader was used to removed contaminated snow. Sorbents were used to clean affected areas of the coil tubing unit.	The contaminated snow was taken to T-pad storage facility. The sorbents were taken to an approved NSB oily waste dumpster.	
4/8/05	2005-IR-1316298	Lisburne Production Center, LPC outside Module 4930, GPMA	Diesel	4.00	Driver noticed a stain on the pad when pulling away from being parcked near Module 4930. Reported spill.	Material was picked up with a loader and put into dump box.	Material will be put into Melt Tank at EOA and melted and then put into vac truck and sent in for recycle.	
8/13/01	2001-IR-109004	Well Pad M, M-Pad Well-3	Paint	4.00	4 gallons of oil based paint was spilled on gravel adjacent to rig. The paint was being moved on a pallet supported by a fork lift. The can tipped off the pallet and contacted the pad.	All of the free standing paint on the gravel pad was soaked up with absorbent pads. The contaminated gravel was cleaned up using hand tools.	Gravel and absorbent/rags have been taken to Haz-Waste shop and will be sent offsite in waste shipment.	
9/26/02	2002-IR-323510	Well Pad Z, Z-Pad, southern edge, at LDF casing	Crude Oil	4.00	After restarting Z-Pad production and preparing to restart water injection after the GC-2 shutdown, the pad operator heard a hissing sound. Upon investigation, he found gas bubbling out from under the insulation where the EWE LDF exited the casing on the pad crossing. A short time later he note crude oil oozing out.	Sorbent material and hand tools were used to clean up affected Ice and gravel.	Sorbent materials were placed in NSB oily waste dumpster. Gravel was taken to T-pad storage pit.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/20/07	2007-IR-2442308	Drill Site LGI, LGI Pad , GPMA	Hydraulic Fluid	4.00	Hydraulic hose for steering system on Cat 988 loader 52-306 failed causing a leak.	Free fluids absorbed up. Contaminated gravel was scraped up with a loader and placed in a dump box for removal.	Contaminated gravel taken to pad 3 for storage and remediation. Sorbents sent to oily waste.	
3/4/03	2003-IR-450285	Well Pad L, L Pad - WOA	Diesel	4.00	While fueling a piece of equipment from a mobile fuel truck the fuel nozzle froze in the open position and could not be turned off by the fueler. The fueler went to the front of the fuel truck and used the pump ESD to shut down fueling operations. 4 gallons of diesel over filled onto the pad before operations could be shut down.	All of the contaminated snow was removed from the pad with shovels and placed in oily waste bags for transportation to recycle tank.	Snow and diesel will be melted down and taken to a recycle facility.	
4/29/05	2005-IR-1346659	PBOC, PBOC parking lot, Non Process Area	Diesel	4.00	The secondary fuel filter on a pickup had been damaged by rock and caused 4 gallons of diesel to leak to the parking lot.	Contaminated gravel was recovered with a bobcat and trimmer and placed into a dumpbox for disposal.	Contaminated gravel was taken to Pad-3 (west pit) for disposal.	
10/22/07	2007-IR-2444799	Airport, Old ARCO Airport Pad. Pipe containment area., Non Process Area	Crude Oil	4.00	During unloading of pipe approximately 3 gallons of crude oil leaked to the snow and airstrip gravel pad.	According to the estimate of ACS, approximately 1-3 gallons of crude was removed and placed in contamination bags and and removed for disposal per ACS and BP protocols	Contaminated snow and gravel were sent to G&I for disposal.	
11/22/05	2005-IR-1627230	Drill Site 09, DS 9 pad, FS2/COTU	Hydraulic Fluid	4.00	DS 9 operator found spill doing his rounds, source unknown, spots with small drips on pad.	A grader and loader were used to recover the contmainted snow and put into a dump box for disposal.	Contaminated snow was taken to T-pad for disposal.	
9/1/04	2004-IR-1035745	PBOC, Utilidor of Administration wing of PBOC, Non Process Area	Sewage	4.00	In the first floor utilidor of the Administration wing of PBOC, a 3" copper waste line deteriorated on the top side to the point where the contents of the line began to leak into the utilidor. Approximately 4 gallons of raw sewage was estimated to have leaked through the utilidor to the pad. This line drained the upstairs bathroom of the same wing. Leak was discovered during routine maintenance work in the same area. Employee who discovered leak contacted security, who in turn reported incident to SRT. SRT immediately evaluated situation. After attemting to recover what sewage hit the pad, they will lime area of spill after maintenance has made all repairs. Some of the sewage will be recovered off plastic sheeting that was left under the building from previous maintenance work.	Spill occured over visqueen on ground. Bagged visqueen and limed visqueen in bags. Limed affected area.	Bagged up visqueen was disposed as oily waste.	
4/20/05	2005-IR-1331519	Drill Site L3, DS - L3, GPMA	Hydraulic Fluid	4.00	The low pressure Hyd. return hose on Loader 52-106 came loose due to a clamp failure, discharging approximately 3 gallons of Hyd. fluid onto the snow.	Loader and dump box were used to remove contminated material.	Material was bruoght to T pad for disposal.	
9/12/04	2004-IR-1049510	Access Road, along airport access road to wells support yard., Non Process Area	Motor Oil	4.00	Boomtruck left wells support yard to airport access road. Cab smell caused the operator to turn the truck around and return to the yard. After exiting the cab a trail of oil was seen along the road. The filler cap was blown off and dribbled oil to the engine and then to the road.	A grader was used to wind row the contaminated gravel and sheen. A loader was then used to scoop up the gravel and put into a domp box for disposal.	Material was taken to Pad 3 for disposal.	
8/5/01	2001-IR-85104	PBOC, Front BUll rail at PBOC Camp	Diesel	4.00	Diesel fuel leak from parked bus 25-123 was discovered while the vehicle was parked on the front bull rail at the PBOC. Vehicle was taken to shop for repair and the SRT was contacted and cleaned up the spill	Bobcat and dump box were used to remove contaminated gravel from affected area.	Contaminated gravel was brought to pad 3.	
5/6/03	2003-IR-502286	Drill Site 11, DS4	Hydraulic Fluid	4.00	Cat Loader #52-305 suffered a hydraulic hose failure while working at DS4. Hydraulic fluid leaked to pad. Approx. 4 Gallons?	Recovered material with a bobcat and placed into a dumpbox for disposal	Material was taken to T-pad for disposal.	
5/7/02	2002-IR-218704	Oxbow Road, Oxbow road near the land fill.	MEG	4.00	While traveling down Oxbow road in a box van unit # 98007, the fan belt came apart and ruptured the power steering hose and the radiator hoses resulting in a realease of power steering fluid and engine coolant to the roadway. Vehicle was stopped and containment was placed under the vehicle. Sorbent pads were used to contain the product to the immediate area. SRT was notified.	Recovered material with loader and placed into dump box for disposal.	Material taken to T-pad for disposal.	
1/16/03	2003-IR-415263	Airport, South Hanger and Airport	Diesel	4.00	Security officer driving bus smelled diesel while driving bus 25-320. He was near the Veco warranty shop so he pulled in. Inspection revealed a fuel hose failure. Inspection of three locations where the bus had been parked prior to finding the leak revealed three small areas of contamination.	Material recovered with hand tools and placed into container for benefical reuse.	Material will be benefically reused.	
5/23/95	1995-IR-87164	Well Pad, Roads	Diesel	4.00	Norcon box van # 50034 was being driven down the road. The driver noticed it was 'pulling' hard to the right. He corrected it, however the truck continued pulling to the right, this time pulling the truck into the ditch where the vehicle struck and came to a rest at a VSM. The axle of the truck was damaged causing battery acid and fuel to leak from the vehicle. Sorbents were used to collect standing fluids. The contaminated snow was shoveled into bags. Diesel contaminated sorbents were placed in a North Slope Oily Waste Dumpster for incineration. Diesel contaminated snow was placed in the melt tank at A3W2 and will be reused as freeze protection. The sorbents and snow contaminated with electrolytes are being tested to determine disposal method.			

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/24/95	1995-IR-86947	Well Pad H	Lube Oil	4.00	During a routine Pad inpsection, an Environmental Technician discovered a spill of approximately 4 gallons of Lube Oil in front of Well H-6. The exact cause and spiller of the spill are unknown. The last unit working at this location was Camco Wireline Unit #4515. The spill was cleaned up by Environmental.		The non hazardous spill clean up material was taken to Arco Pad 3.	During a routine Pad inspection, an Environmental Technician discovered a spill of approximately 4 gallons of lube oil in front of well H-6. The exact cause of the spill and the responsible party are unknown. The last known unit working at this location
12/22/99	1999-IR-100925	West Beach	Seawater	4.00	Unobserved steam coil line was partially embedded and covered in urethane insulation covering the outer wall of the tank. It began to leak due to integrity of the coil pipe structure inside the tank failing. The unseen coil pipe had no cap."NON REPORT	After the material was froze solid it was scratched up with a loader and taken to Pad 3 with the dump box.		Unobserved steam coil line was partially embedded and covered in urethane insulation covering the outer wall of the tank. It began to leak due to integrity of the coil pipe structure inside the tank failing. The unseen coil pipe had no cap."NON REPORT
6/9/95	1995-IR-98510	Drill Site 12	Crude Oil	4.00	Cause of the discharge is undetermined. Material discovered below tailpiece flange behind the wellhouse. There is no indication of a current leak. Most of material was contained on gravel pad. A small amount of crude ran into the reserve pit.	A supersucker was used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 6/10/95 to be held for future remediation.		Cause of the discharge is undetermined. Material discovered below tailpiece flange behind the wellhouse. There is no indication of a current leak. Most of material was contained on gravel pad. A small amount of crude ran into the reserve pit.
4/4/99	1999-IR-98839	Drill Site 04	Crude Oil	4.00	DS4 sump vessel relief/pressure control line carried over fluid to the outside vent. The vent line is open ended and has a 55 gal drum underneath the line. The drum catches minor quantities of liquid. The gas/liquid ran over the drum.	"Sump vent blew produced water onto pad. Ice and gravel was jack hammered up, loaded into dump truck, and taken to Pad 3 West Pit."		DS4 sump vessel relief/pressure control line carried over fluid to the outside vent. The vent line is open ended and has a 55 gal drum underneath the line. The drum catches minor quantities of liquid. The gas/liquid ran over the drum.
10/10/99	1999-IR-98335	Drill Site 04	Crude Oil	4.00	Welded in place gate valve on SWI pig receiver leake through and overfilled the sump. The valve does not leak under pressure and only began leaking after the SWI was taken down (SIP Repairs) and then brought back on-line.	"SRT used sandpiper pump from manifold building to suck up free standing liquid and put back into sump. Used shovels, jackhammer, and super sucker to pick up contaminated gravel from under the facility."		Welded in place gate valve on SWI pig receiver leake through and overfilled the sump. The valve does not leak under pressure and only began leaking after the SWI was taken down (SIP Repairs) and then brought back on-line.
10/10/99	1999-IR-98335	Drill Site 04	Seawater	4.00	Welded in place gate valve on SWI pig receiver leake through and overfilled the sump. The valve does not leak under pressure and only began leaking after the SWI was taken down (SIP Repairs) and then brought back on-line.	"SRT used sandpiper pump from manifold building to suck up free standing liquid and put back into sump. Used shovels, jackhammer, and super sucker to pick up contaminated gravel from under the facility."		Welded in place gate valve on SWI pig receiver leake through and overfilled the sump. The valve does not leak under pressure and only began leaking after the SWI was taken down (SIP Repairs) and then brought back on-line.
6/1/95	1995-IR-87185	MOWF Storage Yard	Diesel	4.00	FINAL Report. A fitting on the fuel tank of a compressor was cracked by the fork of a 966 loader during transport. This caused approximately 4 gallons of diesel to spill into melt water on the pad. The contaminants were recovered from the water with sorbents. The diesel was recovered from the sorbents and reused for freeze protection.		The diesel was recovered from the sorbents to be reused for freeze protection.	A fitting on the fuel tank on compressor # 86-302 was cracked by the fork of a 966 loader during transport. This caused approximately 4 gallons of diesel to spill into melt water on the pad.
6/17/95	1995-IR-86551	Well Pad D	Crude Oil	4.00	The flowline from D-15 developed a pinehole leak at the 90 degree elbow due to corrosion. This allowed the crude to migrate through the insulation and leak into the reserve pit. A sheen on the water of the reserve pit was detected by electricians working in the area. The material was contained with sorbent boom. A guzzler was used to remove the crude from the dewatering pit.		Exempt gravel and fluid from guzzler was taken to Arco Pad 3. The sorbents and sorbent boom were taken to NS oily waste dumpster.	The flowline from D-15 developed a leak at the 90 degree elbow due to corrosion. This allowed the crude to migrate through the insulation and leak into the reserve pit.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/18/94	1994-IR-98189	Well Pad, Roads	Crude Oil	4.00	"Some oil from the 5/10/94 spill collected in a new pipe staged in the area. When this new line was pigged, a fine mist of crude oil sprayed out of the pig receiver."	Shovels and brooms were used to scrape up the contaminated snow and ice. - Ice and snow contaminated with crude oil were taken to Pad 3 snowmelt pit on 5/19/94.		"Some oil from the 5/10/94 spill collected in a new pipe staged in the area. When this new line was pigged, a fine mist of crude oil sprayed out of the pig receiver."
2/2/99	1999-IR-98348	Drill Site 15	Methanol	4.00	Fluid Transfer/Transport: Suction valve on slop trailer that contained methanol was left open. Fluid leaked out from a camlock fitting on ARCO triplex pump.	SRT cleaned up. Shovel into cutting tank. Reuse product & dispose of gravel.	"Gravel to be sent to HWPM for shipment. Waiting for response from EPA on our ""contained in determination.""""	Fluid Transfer/Transport: Suction valve on slop trailer that contained methanol was left open. Fluid leaked out from a camlock fitting on ARCO triplex pump.
5/16/95	1995-IR-98492	Drill Site 04	Diesel	4.00	"A valve was left open on a Triplex pump. Diesel dripped out slowly overnight. A spill liner was in place, but was slightly out of alignment with the drip."	Sorbents were used to soak up liquids. A scratcher and bucket loader were used to remove contaminated gravel. - Sorbents were placed in Oily Waste Dumpster. Contaminated gravel was taken to Pad 3 West Pit to hold for future remediation.		"A valve was left open on a Triplex pump. Diesel dripped out slowly overnight. A spill liner was in place, but was slightly out of alignment with the drip."
11/22/92	1992-IR-86633	Well Pad R	Methanol	4.00	After pressure testing a packer fluid, transfer lines were disconnected. One of the lines still contained fluid which was vented onto the pad. All contaminants were picked up with shovels and placed in bags and taken to T-Pad lined pit.		All contaminates were hauled to the T-pad lined pit.	After pressure testing a packer fluid, transfer lines were disconnected. One of the lines still contained fluid which was vented onto the pad.
1/31/93	1993-IR-86663	Well Pad D	Lube Oil	4.00	An all steel oil cooling line from the engine to the oil cooler broke behind the fitting due to extreme temperatures (-40!) and metal fatigue. Contaminated material was scraped up using a grader and bucket loader and material was taken to A3W2. The damaged line was replaced.		Material was taken to the snow melter at A3/W2 for future recovery.	An all-steel oil cooling line from the engine to the oil cooler broke behind the fitting due to extreme temperatures (-40) and metal fatigue.
8/31/99	1999-IR-98826	Central Gas Facility	MEG	4.00	Technician removed instrument from top of vessel and did not plug hole. Vessel filled shortly thereafter and glycol ran out of open hole.	The SRT was notified to assist in the cleanup. Absorbent pads were used to clean up a portion of the glycol. The SRT used a bobcat to scrape up the contaminated area. The absorbent pads were bagged up and place in the oily waste dumpster. The contaminat	The contaminated gravel was taken to pad 3 for disposal.	Technician removed instrument from top of vessel and did not plug hole. Vessel filled shortly thereafter and glycol ran out of open hole.
5/23/97	1997-IR-89117	Well Pad D	Lube Oil	4.00	The cause is unknown. It is suspected that this occurred during the winter from a leaking crank case on machinery. It was found during pad inspection by field operator.		Non-hazardous snow and gravel were taken to T Pad Pit for disposal.	A spill of approximately 4 gallons of lube oil was discovered by the pad operator next to Well D-3. The source and cause are unknown.
2/11/99	1999-IR-98835	Drill Site 15	Methanol	4.00	Fluid expansion or gas bubble in coil during blowdown operation. Methanol ran out of coil while sitting on deck.	Alaska Clean Seas. Gravel to Pad 3 West Pit reuse fluid.		Fluid expansion or gas bubble in coil during blowdown operation. Methanol ran out of coil while sitting on deck.
6/4/99	1999-IR-98801	Flow Station 3	MEG	4.00	Sight glass on heat trace to STV (stock tank vapor) sump developed a drip in the 4929 flare sump module.	FS3 personnel vacuumed up material and pumped into the sump module to the facility slop tank.	FS3 sump module to the facility slop tank	Sight glass on heat trace to STV (stock tank vapor) sump developed a drip in the 4929 flare sump module.
10/19/96	1996-IR-89641	Niakuk Pad	Fresh Water	4.00	The hose not fully connected before opening the valve on methanol tanker during coil tubing job.		Methanol fluids reused for freeze protection on another wellwork job.	Hose not fully connected before opening the valve on methanol tanker during coil tubing job.
11/17/94	1994-IR-98418	MCC Fuel Dock	Diesel	4.00	Dry lock fitting on line of diesel tanker leaked while off-loading fuel to bulk tanks.	A rake and handshovels were used to remove the conaminated snow. - The contaminated snow was placed into designated dumpster at Fuel Dock and will be melted and reused in wellwork activities.		Dry lock fitting on line of diesel tanker leaked while off-loading fuel to bulk tanks.
2/17/92	1992-IR-97874	MCC Fuel Dock	Diesel	4.00	Extreme cold weather caused pump nozzles not to trip off when fueling was complete.	YES -		Extreme cold weather caused pump nozzles not to trip off when fueling was complete.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/9/98	1998-IR-90381	Niakuk Pad	MEG	4.00	A glycol spill was discovered on Niakuk Pad. The source and the cause are unknown.		Non-hazardous material was taken to ARCO Pad 3 for disposal.	A glycol spill was discovered on Niakuk Pad. The source and the cause are unknown.
8/5/92	1992-IR-97374	Pad 3	Diesel	4.00	"Fuel nozzle stuck on the """"on""""" position while filling a loader fuel tank."	Metis/Cleanup		"Fuel nozzle stuck on the """"on""""" position while filling a loader fuel tank."
8/10/92	1992-IR-97379	Drill Site 09	Fresh Water	4.00	While steamcleaning a crane the temporary containment liner developed a leak.	Metis/Cleanup		While steamcleaning a crane the temporary containment liner developed a leak.
2/10/92	1992-IR-97870	Drill Site Maintenance	Diesel	4.00	Warmer temperatures caused full fuel tank to expand and runover onto the pad.	YES -		Warmer temperatures caused full fuel tank to expand and runover onto the pad.
1/21/91	1991-IR-97514	Well Pad, Roads	Diesel	4.00	"Triplex pump unhooked during transport, material splashed out."	YES -		"Triplex pump unhooked during transport, material splashed out."
12/13/91	1991-IR-97607	Drill Site Maintenance	Diesel	4.00	Crossover line on tractor fuel tanks froze resulting in spill.	YES -		Crossover line on tractor fuel tanks froze resulting in spill.
7/10/99	1999-IR-98812	Drill Site 02	Crude Oil	4.00	Mechanical failure. The tubing on a coil tubing unit parted.	Security and ACS were contacted to clean up location. A bobcat and end dump were used for clean up and transport to pad 3.		Mechanical failure. The tubing on a coil tubing unit parted.
8/12/93	1993-IR-98014	Pad 3	Diesel	4.00	O-ring failure on diesel filter in glycol heater building.	Handshovels were used to remove the contaminated material. The cleanup is 100% complete. - The contaminated material was taken to the Pad 3 West temporary pit on 8/14/93 to be held for future remediation.		O-ring failure on diesel filter in glycol heater building.
6/2/91	1991-IR-97442	Drill Site 09	Crude Oil	4.00	Probable cause: from discharge valve maint. during winter.	YES -		Probable cause: from discharge valve maint. during winter.
2/7/93	1993-IR-97414	Drill Site 09	Seawater	4.00	Leak from nipple on manifold skid for coiled tubing unit.	Metis/Cleanup		Leak from nipple on manifold skid for coiled tubing unit.
6/29/91	1991-IR-97478	Central Compressor Plant	Diesel	4.00	Thermal expansion resulted in leakage thru block valve.	YES -		Thermal expansion resulted in leakage thru block valve.
2/12/91	1991-IR-97618	Drill Site 12	Diesel	4.00	Connection on hose from well to slope trailer not made.	YES -		Connection on hose from well to slope trailer not made.
12/7/90	1990-IR-97198	J Pad	Diesel	4.00	"Line froze up, broke connection and sprayed up."	YES -		"Line froze up, broke connection and sprayed up."
7/8/92	1992-IR-86950	Well Pad W	Diesel	4.00	The source of the spill is unknown. The spill material was located during routine pad inspections. All contaminants were scraped up with a bucket loader and placed in the dump truck to be taken to A3W2 melt tank for washing.		All contaminants placed in the A3/W2 melt tank for washing.	Material located during routine pad inspections.
8/30/92	1992-IR-97775	Flow Station 2	Lube Oil	4.00	Material released from vent line on a PWI pump.	Metis/Cleanup		Material released from vent line on a PWI pump.
3/2/90	1990-IR-100765		Diesel	4.00	Check valve failed on coiled tubing lubricator.	YES -		Check valve failed on coiled tubing lubricator.
3/19/00	2000-IR-98723	Drill Site 17	Lube Oil	4.00	O'ring failed on hose fitting on Volvo loader.	SRT cleaned up product with absorbs and chipped up contaminated snow.		O'ring failed on hose fitting on Volvo loader.
1/18/91	1991-IR-97479	C Pad	Methanol	4.00	Suspect leaked from tanker in parking lot.	YES -		Suspect leaked from tanker in parking lot.
6/2/90	1990-IR-97003	Drill Site 04	Diesel	4.00	Fuel nozzle failed to completely shut off.	YES -		Fuel nozzle failed to completely shut off.
4/12/93	1993-IR-97894	Spine Road	MEG	4.00	Hose ruptured on tractor coolant system.	Metis/Cleanup		Hose ruptured on tractor coolant system.
7/26/90	1990-IR-97055	COTU Facility	Diesel	4.00	Nozzle came out of fuel tank on truck.	YES -		Nozzle came out of fuel tank on truck.
6/26/91	1991-IR-97475	Flow Station 1	Lube Oil	4.00	Leaking pump allowed sump to overflow.	YES -		Leaking pump allowed sump to overflow.
8/18/97	1997-IR-98618	Drill Site 11	Lube Oil	4.00	Hydraulic hose failed due to fatigue.	Used SRT Blade and loader (Bobcat) to remove contaminated gravel. - Contaminated Gravel was taken to Pad 3 West Temp Pit on 8/18/97.		Hydraulic hose failed due to fatigue.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/22/98	1998-IR-100668	Point MacIntyre	Crude Oil	4.00	Leaking wireline lubricator pack-off.	Removed contaminated gravel. Wiped down flowlines. -		Leaking wireline lubricator pack-off.
1/24/93	1993-IR-98024	Drill Site 01	Crude Oil	4.00	Zerk fitting on lateral valve failed.	Metis/Cleanup		Zerk fitting on lateral valve failed.
2/15/93	1993-IR-98111	PBOC	MEG	4.00	Transmission line on pickup failed.	Metis/Cleanup		Transmission line on pickup failed.
1/6/94	1994-IR-98149	MCC Fuel Dock	Diesel	4.00	*Vehicle fuel tank was overfilled.	A loader scraped up the contaminated material. - Material was placed in the dedicated snow dumpster at the fuel island for future recycling at FS1 upon sample analyses.		*Vehicle fuel tank was overfilled.
9/2/99	1999-IR-94208	Cold Storage Pad/Bldg	Diesel	4.00	A full recycable metal dumpster staged at the cold storage pad dumpsters site was being moved and prepared for shipment from the slope. When it was lifted and moved diesel fuel was observed leaking from the dumpster. Further investigation revealed that it had also leaked at the site where it was staged for filling.	Loader and hand tools were used to clean up contaminated gravel.	Gravel will be taken to Arco Pad 3	Investigation is under way
1/17/92	1992-IR-97711	COTU Facility	Diesel	4.00	Overfilled tanker.	YES -		Overfilled tanker.
4/6/91	1991-IR-97678	Drill Site 15	Seawater	4.00	Valve leaked.	YES -		Valve leaked.
11/27/89	1989-IR-96859	Drill Site 02, Not specified	Diesel	4.00	Fuel Tank switch froze up causing fuel pump to recycle fuel into tank	Not specified	Not specified	Not specified
12/28/89	1989-IR-96306	J Pad, Not specified	Methanol	4.00	Overfilled tanker caused by a faulty sight glass.	Not specified	Not specified	Not specified
6/14/89	1989-IR-96676	Drill Site 09, Not specified	Crude Oil	4.00	Splashed out of unlatched top hatch of tanker.	Not specified	Not specified	Not specified
7/22/89	1989-IR-96729	Drill Site 15, Not specified	Diesel	4.00	Material leaked from a compressor fuel line.	Not specified	Not specified	Not specified
7/10/89	1989-IR-96714	Drill Site 11, Not specified	Crude Oil	4.00	Relief valve blew while pumping crude.	Not specified	Not specified	Not specified
6/7/89	1989-IR-96668	Drill Site 03, Not specified	Crude Oil	4.00	Flange leaked from line	Not specified	Not specified	Not specified
12/23/87	1987-IR-96393	Drill Site 11, Not specified	Crude Oil	4.00	Crude mist frm clea	Not specified	Not specified	Not specified
2/22/89	1989-IR-96836	Drill Site 14, Not specified	Crude Oil	4.00	Drip pan overfilled	Not specified	Not specified	Not specified
7/26/87	1987-IR-96226	Central Gas Facility, Not specified	Diesel	4.00	Sheen on meltwater	Not specified	Not specified	Not specified
10/26/88	1988-IR-96538	Drill Site 12, Not specified	Diesel	4.00	Valve left open	Not specified	Not specified	Not specified
10/8/88	1988-IR-100726	Lisburne Production Center, Not specified	Crude Oil	4.00	Overfilled tank	Not specified	Not specified	Not specified
8/22/88	1988-IR-96490	Drill Site 11, Not specified	Diesel	4.00	Fuel tank leak	Not specified	Not specified	Not specified
10/25/99	1999-IR-94333	Well Pad C	Crude Oil	4.00	The pad operator noticed fluid leaking from the cap of the corrosion coupon fitting on the S-riser of well C-19. Well C-19 had been shut-in on September 1, 1999. Due to the below freezing temperatures, the metal on the corrosion coupon fitting contracted allowing the seal to fail and fluids to leak into the cap. The rubber o-ring seal in the corrosion coupon cap also failed due to cold. Crude oil leaked from the cap and onto the gravel and cellar board in the wellhouse. The BPX Environmental Department was notified of the spill and clean up activities were started. The spill has been estimated at approximately 4 gallons.		Contaminated gravel was taken to ARCO pad 3 and Sorbent material was taken an placed in oily waste dumpster	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/11/00	2000-IR-95727	Well Pad M	Crude Oil	4.00	Well M-17, 1" weld-o-let nipple for bypass around lateral valve was found to be cracked and began leaking when line was filled with Methanol. Per opeator: On 12-12-00, we decided to load M-17 F/L with NEAT and pressure test it to the lateral valve. While loading the F/L with Neat, before building any pressure, the pump truck operator observed liquid leaking out of the insulation directly upstream of the lateral valve and immediately shut down the pump. I was in the well-house watching the s-riser for leaks and monitoring the pressure. The pump operator immediately reversed his pump in order to evacuate the line of fluids as much as possible to minimize the spill. We immediately put absorb under the leak and notified the Field SPOC and the lead tech. We removed the insulation from the spill area and found the 1" lateral by-pass line had a crack in the nipple at the top of the weld-o-let. The Lateral by-pass was blinded and was to remain out of service. This line had recently been removed and re-installed . It may have been damaged while it was off and staged on the pad.I estimated the spill to be 10 gallons of dirty NEAT.	Material was cleaned up using shovels and other hand tools.	E&P exempt materials were taken to pad 3.	
4/15/00	2000-IR-94863	GC-3 Pad	MEG	4.00	Field operator noticed a small glycol spray on the snow just South of Skid 454 on a pipe rack column. Upon inspection, the tubing was crimped from an apparent impact to it and developed a pin hole leak.	A loader and hand tools were used to clean the affected snow and gravel.	The material was taken to Arco Pad 3	
10/5/00	2000-IR-95456	Access Road	Diesel	4.00	Hose vibrated off of Catwalk on trailer #94023, hose fell to ground, knocking the hose cap off of the hose and Diesel fuel drained out of the hose onto the road southeast of the Sag River bridge. Spill was on gravel road. No spill to water or tundra.	Complete	Pad 3	
8/9/06	2006-IR-1937524	Contractor Pad Warehouses, Price Pad, Non Process Area	Diesel	3.50	Vehicle traveling from Kuparuk to Deadhorse developed a fuel system leak at Price Pad	A loader and shovels were used to remove contaminated gravel.	The material was taken to Pad 3 disposal facility.	This was third party spill. BP reporting the spill due to it being on BP property.
11/22/04	2004-IR-1137587	Drill Site 04, Drill Site 4 Near Well #4-1., FS2/COTU	Hydraulic Fluid	3.50	On 11/22/04 a Veco employee was driving an 821 Case Loader # 40121 on Drill Site 4 near well #4-1. The employee had just moved a reverse-out skid to the side and out of the way of traffic. Once employee moved the skid out of the way he proceeded across the pad to load the fork attachment into his bucket for transportation back to the equipment yard. As the employee went to back up the loader and position it to load the forks into the bucket he noticed a trail of fluid on the ground. The employee immediately shut the vehicle down and started to inspect the area to see what caused the leaking fluid. The employee noticed the fitting on the hydraulic cylinder had cracked and hydraulic fluid had released to the ground. The employee immediately reported the incident to his supervisor and VECO Dispatch at 5104. The amount of released was determined to be 3.5 Gallons.	Contaminated snow was cleaned up with a loader and placed into a dump box for disposal.	Material was taken to T-pad for disposal.	
4/19/98	1998-IR-90594	Well Pad H	Corrosion Inhibitor	3.00	On 04/18/98, a heater hose was placed into wellhouse H-35 to thaw the frozen gravel in order to correct a subsidence issue. The heater hose had been in the wellhouse for approximately 8 hours. Thermal expansion caused a seal failure on a SkoFlo valve on the continuous chemical injection system. Examination of the SkoFlo valve revealed that there were 6 of 8 studs, that hold the base plate to the valve body, that were not installed. This valve had been rebuilt, several weeks earlier, by a technician in the Chemical Department. The Environmental Department was notified and the contaminated gravel was removed from the area.		Material will be rinsed out of the gravel and reused for freeze protection by the chemical crew.	Well H-35 was shut-in and freeze protection was in process. A heater hose was placed in the wellhouse for approximately 8 hours. Thermal expansion caused a seal failure on a SkoFlo valve on the continuous chemical injection system. Examination of the S
2/17/02	2002-IR-168840	Well Pad S, S-17	Methanol	3.00	Puddles of methanol totalling about 1 gallon were found sitting in the herculite secondary containment surrounding an upright methanol storage tank. Source of leak (tank vs hose) is unknown. Whatever was leaking appears to have stopped. Spill was reported to and inspected by environmental. Will continue to monitor area.	Sorbent material was used to soak up contaminated liquids. The contaminated snow and gravel was shoveled up and chipped off the pad using hand tools. The material was placed in oily waste bags for transportation.	The sorbents were taken to the Hazwaste coordinator for disposal.The gravel was also taken to the Hazwaste coordinator for disposal. The snow will be melted down and reused on an approved job.	A hole was discovered once the temporary containment pit had been moved and it was determined that an additional 2 gallons had spilled onto the gravel pad. This report has been updated to reflect these findings.
3/14/00	2000-IR-98845	Drill Site 01	Crude Oil	3.00	"Drain valve on injector head sump froze. This prevented fluid from draining through the drain valve. When the fluid level rose, wind picked up fluids and sprayed a small amount across reserve pit."	SRT completed cleanup		"Drain valve on injector head sump froze. This prevented fluid from draining through the drain valve. When the fluid level rose, wind picked up fluids and sprayed a small amount across reserve pit."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/23/01	2001-IR-101087	Well Pad E	Methanol	3.00	During a fishing operation on E-Pad, well #25, the Coil Tubing crew discovered a dimple in the CT pipe and decided to pull out of hole to change CT pipe. Back at surface it was necessary to remove the Blow Out Preventor (BOP) in order to disconnect the Bottom Hole Assemble (BHA) as the tools outside diameter was bigger than the inside diameter of the BOP. The Dowell crew was required to disconnect at the lower flange of the BOP and then reinstall the BOP after the BHA had been removed. The crew then began purging the reel using nitrogen. A few minutes after begining the purging operation, a CT employee entered the wellhouse and discovered that the BOP lower flange was leaking. He notified the CTU Supervisor and the nitrogen pumper immediately. The nitrogen pump was shutdown and the remaining fluid and pressure bled to the tiger tank via the choke manifold. The BOP lower flange had been tightened as per procedures after reconnecting(i.e. using first an impact wrench and then a hammer and flogging spanner to tighten the bolts in a cross pattern). The leak happened just after crew change and the day CTU Supervisor decided to stay on site until the reel was blown dry to ensure a smooth handover between the two crews. The CTU Supervisor admitted that he thought of pressure testing the newly rigged up nitrogen line and did so, but forgot about pressure testing the BOP connection. A Loss Prevention Team convened and Spill Review was conducted to review the circumstances surrounding the incident and generate action items that would prevent the reoccurrance of such an incident in future operations.	Contaminated gravel was shoveled into oily waste bags and removed from the well cellar.	Material will be taken to pad-3 for disposal.	This information is being provided to fulfill the immediate spill notification requirements under 18 ACC 75.300. Reported to AK State Troopers (ADEC after hours) Spill hot line on 3/23/01.
9/5/06	2006-IR-1976699	Well Pad B, BPX, GPB, GC3, B-Pad, B-36, GC3	Diesel	3.00	After the drilling rig had left B-36 and well house installed, the Well Reconnect Crew smelled and noticed diesel in the well head tree "flutes". They called the Well Pad Operator who immediately reported the leak/spill to ext 5700. Absorbent blanket was placed around the conductor. The gravel contaminated with diesel appears to be limited to the area in the cellar, closest to the conductor. The Spill Techs removed some of the contaminated gravel, but noticed that liquid was on the flutes. The diesel was not observed before the drilling rig operation was started. The 9.8 lb brine and diesel had been circulated in the outer annulus on August 20, 2006. It now appears this is a leaking surface casing that the Well Integrity Team will investigate. Prior to performing a MIT pressure test the Well Integrity Team installed plastic secondary containment can to capture any fluids leaking from the surface casing flutes.	Shovels were used to clean affected gravel. Sorbent were used to wipe down the tree and soak diesel coming from flukes.	The gravel was taken to an SRT accumulation bin and will taken to Pad 3 disposal facility.	Prior to performing a MIT pressure test the Well Integrity Team installed plastic secondary containment can to capture any fluids leaking from the surface casing flutes.
6/10/95	1995-IR-98511	Drill Site 02	Sulfuric Acid	3.00	"While batteries were being moved into service module, one battery slipped off pallet and cracked, releasing mixture of battery acid and water onto gravel pad."	Handshovels were used to remove the contaminated gravel. Absorbs were used to soak up excess fluids. - Gravel and absorbs were tested and found to be non-hazardous. Gravel was disposed at Pad 3 West Pit on 6/24/95 and contaminated absorbs were disposed		"While batteries were being moved into service module, one battery slipped off pallet and cracked, releasing mixture of battery acid and water onto gravel pad."
4/21/06	2006-IR-1804125	Seawater Treatment Plant, STP dearerator bay 1&2 129 foot level on chemical injection line, FS1/SIP/STP	Seawater	3.00	A small leak developed from a pipe union on a O2 scavenger injection line to the deaerator tower 12202.	Washed area down with water and used absorb pads to soak up diluted O2 scanvenger	Absorbents were taken to the Hazwaste coordinator for shipping.	Note that Oxygen Scavenger was the material released but was not a choice in the report menu so 'seawater' was listed. Agencies were notified of release.
4/7/01	2001-IR-101181	NW Eileen	Diesel	3.00	Approximatly 9:00, a 3 gallon diesel spill was dicovered on the "L Pad" Lay Down Yard. All heavy equipment was inspected for leaks and none were found. Proper notifications were made and area was cleaned as per HCC/BPXA procedures. HCC is currently investigating this incident.	Shovels and ice scrapers were used to clean affected snow and ice.	Material was brought to BP' melt bin for recycle.	A spill review is to be held on 4/8/01 on this matter. This informations is provided to fulfill the spill notification requirements under 18 ACC75.300
3/24/02	2002-IR-190247	Drill Site L2, L2-03	Methanol	3.00	After rigging for a well test, the unit operator was operating a triplex pump pressure testing the hardline while the well test tech was watching the connections for leaks. Immediately he noticed a leak at one of the hammer unions and informed the unit operator to shut down the pump and depressure the line. He then retrieved a bucket to help contain the leak. Drip liners were present under all connections.	Material was recovered with hand tools and placed into appropriate containment.	Material beneficially reused for freeze protection.	Verble notification was made to Debbie at the Alaska State Troopers at 08:45 on 03/24/02. Initial report submitted on 3/25/02.
1/30/07	2007-IR-2141614	Well Pad B, B wellpad module, GC3	Corrosion Inhibitor	3.00	The wellpad operator found Corrosion Inhibitor leaking from main pump at 11:00, he shut off pump and isolated system. He then notified the Chemical department and SRT. The pump was found to be leaking from the head and diaphragm area. The pump has been repaired and returned to service.	Sorbents and rags were used to clean up the material from the floor of the skid.	The sorbents and rags were taken to an approved NSB oily waste dumpster.	The verbal notification was made on 1/30/07 by the GPB WOA enviornmental advisor at approximately 11:50 am.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/6/04	2004-IR-1156369	Drill Site L2, L2 well 15, GPMA	Methanol	3.00	A triplex pump leak methanol on methanol pump at location L2 15. The pump leaked in to the bottom of the sump and spilled approximently 2.5gals to the ground. SRT was notified to advise in the cleanup with the release.	Hand tools, and Bobcat were used to remove contaminated material.	Contaminated snow was melted down and will be reused for freeze protection. The contaminated gravel was tested for for flash point (>140 F) and sent to Pad-3 West pit for disposal.	Agencies were notified. This report amends the original report # 04-244 sent in on December 8, 2004.
6/14/01	2001-IR-101658	Well Pad P	Crude Oil	3.00	Flange leaked due to stud bolts being improperly torqued. Rig work done during 1-Qtr on P-20 caused this line and valve to be separated. The studs became loose as ambient temperatures increased. Note: This line was pressure tested prior to being place back in service.	Water was sucked out of reverve pit with Vac truck. Absorbent boom and pads were used to recover standing oil on the water. Gravel was removed with hand tools and heavy equipment.	Water has been taken to Pad-3. Gravel has been taken to DS-4 Grind & Inject facility.	This information is being provide to fulfill the spill notification requirements under 18 ACC 75.300.
11/1/01	2001-IR-130689	Sag River, Sagavanirktok river flood plain East of the sag river bridge.	Transmission Fluid	3.00	A dozer working on the DS 9 pipeline road had a transmission line failure that resulted in a 3 gallon spill to the road. The equipment was returned to the heavy equipment shop, repaired and inspected for hose integrity. Bracket holding transmission line broke letting the line fall against the frame where it wore through. Area not visibly accessable. After inspection and repair the equipment was put back to work.	Contaminated snow and ice was picked up with shovels and Bobcat and placed in dump box.	Contaminated snow and ice taken to Pad 3 for disposal.	First Estimates of spill volume were High. When the transmission was refilled it only took 3 gallons.
4/17/01	2001-IR-101242	Well Pad L	Diesel	3.00	BP environmental received a call on 4/15/01 from the WOA lead spill tech that a diesel spill had been discovered on L pad. The spill tech asked environmental if he had been advised of any spill, environmental replied they had not. After some investigation environmental contacted the Peak project manager to inform him of the spill. The Peak project manager contacted Safety and an investigation was conducted. The VMS fueler was fueling the VECO carrier unit for the Watson drill on L pad on 4/14/01. The tank setup on the crane has filler spouts on each side of the crane. In order to help the venting process during the fueling the fueler had removed both caps. As he fueled on one side of the crane the tank became full and fuel flowed out of the opposite side of the open fuel spout. The fueler was not aware of the overflow until he walked around the crane and observed fuel on the ground. At that time the fueler used absorb to soak up some of the diesel. The fueler then proceeded on to his next fuel stop	Clean up was done using a loader and shovels. The fuel truck driver used sorbents to clean free liquids at the time of the spill.	The sorbents were put in the NSB oily waste dumpster. The gravel was taken to Pad 3	This information is being provided to fulfull the spill notification requirements under 18 ACC75.300
2/16/06	2006-IR-1727232	Well Pad X, X-13 well continuous injection, GC3	Corrosion Inhibitor	3.00	Chemical operator found SKOFLO valve leaking at the base plate. The valve was removed and replaced. The valve is being inspected.	Shovels were used to clean affected gravel. Sorbents were used to absorb liquids in catch pan.	The material was taken to the SRT accumulation bin and will be taken to pad 3. The sorbent material was disposed of in a NSB oily waste dumpster.	Verbal notification was made by GPB Environmental advisor West on 02/16/06 at approximately 0915.
3/15/02	2002-IR-184561	Well Pad Y, Y pad Well #18	Seawater	3.00	Coil tubing unit # 5 was working on Y pad Well # 18. The unit was conducting a clean out which, involved pumping slick water into the well. During the operation an employee who was conducting a location walk around and checking connections for any leaks noticed fluid leaking from the pump room on the coil unit. The employee used his radio and notified the supervisor and had him shut down the pump. Spill containment under the pump room caught some of the fluid. However, between 3 - 5 gallons contacted the gravel pad. After the pump was shut down the crew inspected the pump and found that a seal on the hard-line had failed. The pump was repaired and the job was resumed. We inspected the seal and found that it was the wrong seal for this application. Recently Schlumberger (Dowell) replaced a large percentage of their hard-line. The new hard-line and connections were shipped to the slope with the wrong seal installed. Most of these seals were changed out. However, it appears that some of them were not.	Affected snow has been scraped up with a loader and hand tools.	The non-hazardous material has been taken to Pad 3 for disposal.	This information is being provided to fullfill the spill notification requirements 18 ACC75.300
6/29/01	2001-IR-101730	Well Pad Y	Sewage	3.00	The BPX sewage truck was hooking up to the hose to suck out the holding tank at CDR1 satellite camp. A kamlok cap had been installed on the end of the hose the previous day as an action recommended from a spill at another, similar camp some days earlier. As the truck driver removed the cap, some liquid that had evidently been accumulating in the line spilled on to the ground. Approx 3 gal was spilled. ACS tech was notified and cleaned up the soaked gravel and the area was sanitized. This problem had not been encountered prior to installing the cap on the hose end. Inspection of the holding tank and piping shows the tank does not appear to have a proper vent system which may have caused the tank to "burp" when the cap was removed.	The contaminated gravel was removed using shovels.	The material was taken to Pad 3 disposal facility.	This infor is being provided to fulfill spill notification requirments under 18 ACC75.300
5/25/00	2000-IR-98357	PBU Equipment Fleet Shop	Diesel	3.00	"Unknown cause. The spot was discovered by a Peak employee, but no vehicle was present."	"The SRT was called out and used sorbents to soak up the pools of fluid, then used a Bobcat with a scratcher and bucket to clean up the contaminated snow and placed it into a dump box."		"Unknown cause. The spot was discovered by a Peak employee, but no vehicle was present."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/10/06	2006-IR-1901197	Flow Station 2, FS2 Outside of Turbine Modules, FS2/COTU	Lube Oil	3.00	Turbines at FS2 are vented at the roof. Vent pipes may leak small amounts of hydrocarbons onto the roof. Rainwater and snowmelt carry the hydrocarbon contamination to the gravel pad below resulting in a light accumulation.	Hand tools and heavy equipment were used to remove contaminated gravel from the area.	Contaminated gravel will be stored at the Pad 3 waste facility for future remediation. Oily absorbent and PPE will be managed by the NSB as solid oily waste.	Note: this is the Final Report. Containment has been built under both sides of mod.
12/9/93	1993-IR-98086	C Pad	Sulfuric Acid	3.00	Leaked from batteries when crate they were in fell off forks during loading.	Absorbents and handshovels were used to clean up the contaminated snow. Cleanup is 100% complete. - The contaminated snow was disposed of at Pad 3 WIF on 12/20/93.		Leaked from batteries when crate they were in fell off forks during loading.
8/29/01	2001-IR-113102	Well Pad Y	Diesel	3.00	Halliburton Slickline was rigged up on Y-11. During pressure test, an O-ring failed at the Pump-in-Sub/Tree cap connection. Diesel spilled out and ran down the tree. The crew had a tree cap dike in place which caught most of the diesel. Some diesel spilled down the tree and into the well cellar. The BP rep. was notified and ACS Spill Technician was dispatched to location. The Spill Technician determined that 2 gallons of the fluid was captured in secondary containment and 1 gallon spilled into the wellhouse cellar. The contaminated gravel was removed and placed in oily waste bags for proper disposal by the Enviornmental Department. After the wireline operation was completed, a crew measured the wellhead connection for O-ring tolerance at Y-11. The wellhead connection was found to be at the maximum allowable tolerance in the O-ring sealing surface (according to the specifications of Halliburton quick unions in CPS10).	The gravel was removed with shovels and put in oily waste bags.	The gravel was taken to Santa Fe pad and placed in a accumulation bin and will be taken to Pad 3 disposal facility.	The crew had installed a tree cap dike which helped capture the material.
6/9/07	2007-IR-2302944	Drill Site 04, DS4 MI ESD SHELTER, FS2/COTU	Hydraulic Fluid	3.00	FITTING FAILURE RESULTING IN HYDRAULIC LEAK	Vac truck was used to remove Hydraulic fluid from water surface of impoundment. Hand tools to remove gravel.	Recovered fluid's were brought to Pad 3 for diposal. Gravel was brought to Pad 3.	NOTE: This is the Final report. Site is clean of Contamination.
1/29/99	1999-IR-93426	Well Pad, Roads	MEG	3.00	Between shifts, a Hithachi 550 track hoe was idling (winter procedure). For unknown reasons, the engine compartment caught on fire. The HSE specialist on scene immediately called BP Security who then dispatched the ERT. The fire was put out with the use of four twenty pound dry chemical extinguishers by AIC employees prior to the arrival of the response team. The equipment had been parked over containment, but during the time the fire was being faught the containment was moved to facilitate safety footing. Approximately 8 gallons of engine oil/coolant was spilled on the ice. The spill was immedately addressed and upon movement of the machine back to the AIC shop, the remainder of the spill was cleaned up. All contaminants removed to the AIC shop in Deadhorse for disposal. It is unknown at this time as to the cause of the fire, but after factory representatives advice causal factors will be added to the report.			Report called in to National Response Center (Report # 472350)
6/1/01	2001-IR-101504	Niakuk	Hydraulic Fluid	3.00	NK-14's hydraulic safety sump or drum fell over causing a three gallon hydraulic oil spill inside the well house. The well house and surrounding area was recently covered with snow melt water from the warm weather. The sump or drum was position on a level section of the well house gravel floor before the water covered the well house floor. The well head cellar subsidence caused the drum to tip over causing the spill to occur.	Recover with Vac truck for transport to Pad-3	Transport to Pad-3 for injection	This information is being provided to ADEC per 18 AAC 75.300.
4/10/01	2001-IR-101205	Drill Site 16	Motor Oil	3.00	While in use, the air compressor on rig loader failed & sent operating rod thru side of compressor housing resulting in the discharge of (est) 3 gal of motor oil.	Used shovels, ice scrapers, and oily waste bags.	7 bags of contaminated snow was taken to pad 3 for disposal.	This information is being provided to ADEC per 18 AAC 75.300
4/1/01	2001-IR-101145	Seawater Treatment Plant	MEG	3.00		Used loader with scratcher and bucket to scrape glycol contaminates snow from roadway and place in dump box for disposal.	Contaminated snow taken to Pad 3 East Pit.	This information is being provided to ADEC per 18 AAC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/22/01	2001-IR-101070	Drill Site 06	Seawater	3.00	Upright tank 321 was delivered to DS-6, well #24 per a request by the Well Opeations Group. After the tank was set on location, 150 bbls of 2% KCL were transfered to the upright tank. The operator that delivered the KCL then checked the tank and no leaks were evident. The tank sat on location for 24 hours with no leak. On 3/21/2001, the Dowell CTU crew arrived and placed a heater trunk on the outlet valve of the upright tank. They did not check the valve to ensure it was closed, nor inspect the fittings to see if they were tight. No containment was placed under the valve. Approximately 1 to 2 hours later the crew returned and discovered that approximately 3 gallons of 2% KCL had leaked onto the ground. It was noticed at that time that the valve was in a position beyond closed allowing fluid to leak by, also the 206 fitting that was made up to the 3 inch NPT nipple was loose. The fitting was tightened and the valve was set to the proper closed position and the leaking stopped. The Well Ops. Supervision and Environmental Department were immediately notified of the spill. A Spill Technician was dispatched to the drillsite to assess the spill area. The spilled fluid was cleaned up and the Spill Technician transported for proper disposal. There were no injuries as a result of this incident and the fluid never was in danger of leaving the pad. The Veco DSM department was notified 10 hours later.	Used Bobcat with scratcher and bucket to scrape off of gravel pad.	Pad 3 East Pit	This information is being provided to ADEC per 18 AAC 75.300
6/22/01	2001-IR-101694	Drill Site 13	Crude Oil	3.00	Companion Flange on well head leaked about 3 gallons of crude into the Well Cellar	Wiped down contaminated well tree with sorbent, sucked up contaminated gravel with super sucker.	G&I	This information is being provided to ADEC per 18 ACC 75.300
3/20/00	2000-IR-94755	Well Pad D	Crude Oil	3.00	D-5 swab valve (6" Camron) packing gland on the stem bonnet blew out spraying a fine oil mist throughout the wellhouse and and dripping a heavier concentration on the well tree , puddling in the cellar. The total amount sprayed and spilled is estimated at 3 gallons. The swab valve was in a closed position and the well shut in at the wing valve at the time of the seal failure. There was no indication that the seal (packing gland) was prone to fail. The valve has been repaired. The pad operator discovered this while making his rounds. There was initial concern regarding the proximety of a drilling rig next door to the well but the operator was able to quickly and remotely isolate the leak by closing the surface safety valve.	Contaminated snow inside the wellhouse was removed using hand tools. The cellar was cleaned using a Super Sucker during Wellhouse clean up project Y2000.	Contaminated snow was taken to Pad 3. Class II contaminated gravel was taken to Arco Grind and Inject.	The pad operator discovered this while making his rounds.
12/6/02	2002-IR-386536	Drill Site 16, DS16 test separator relief tank	Produced Water	3.00	While pigging PWI lines at DS16, test separator overpressured, lifted PSV and vented process fluid to relief tank. Inlet line to relief tank had a hole that allowed fluids to release to atmosphere.	Recovered material with loader/hand tools and placed into dump box for disposal.	12 cubic yards of material taken to G&I for disposal.	Immediate notifications make to the appropriate agencies.
8/27/02	2002-IR-298191	West Dock, West Dock.	Hydraulic Fluid	3.00	While offloading crane from barge a 5 gallon bucket tipped over poping the lid and spilling some of the contents. The contents impacted the crane, barge deck and less than 1 cup entered the Artic Ocean. This spill occurred offshoe and was caused by Crowley. BP helped out as a good neighbor. We will not coount this spill toward our target.	Recovered material with absorbents.	Absorbents only--disposed of as oily waste.	Immediate notifications made to the appropriate agencies.
10/20/06	2006-IR-2022634	Drill Site 16, DS-16 well 12, FS2/COTU	Corrosion Inhibitor	3.00	Thursday the 19th the chemical operator turned the chemical on and set the rate after the well had been shut in for a number of months. While checking wells the pad operator noticed a leak coming from what appears to be the stem seal on the neck of the SkoFlo valve. The valve was isolated and spill response was notified. The chemical operator has built another valve and will exchange it this morning. The failed valve will be brought in and examined.	Absorbant pads were used to wipe up the material on the floor and hand tools were used to recover the gravel in the well cellar.	Fluids recovered in containment were reused for back in the system. Contaminated absorbents were taken to oily waste and the contaminated gravel was taken to Pad-3 for storage and future remediation.	This report is an amended report with a revised date.
4/21/01	2001-IR-101270	Access Road	Diesel	3.00	This spill was discovered by a Peak employee. ACS determined that about 2 to 3 gallons of diesel was spilled on the Endicott bypass road.	Sorbents used to remove gross contamination. Surface of gravel roadway was polished by use of weed burners to remove remaining residue as approved by Tom DeRuyter of ADEC via phone conversation with Mehrdad Nadem - BP EOA Environmental Advisor on 4/21/01.	Residue burned off with hand held torches (weed burner).	Information being provided to ADEC per 18 AAC 75.300
6/10/01	2001-IR-101567	Drill Site 15, DS#15/29	Crude Oil	3.00	The nipple on the Braden head developed a small leak that deposited 2 = gallons of crude under the well house floor. Proper notification and clean up occurred.	Recovered with super sucker and transported to G&I for disposal.	9 cu. yrds of material taken to G&I Oily waste pit.	This information provided to ADEC per 18 AAC 75.300
5/14/03	2003-IR-511207	Drill Site 12, DS 12 Manifold Building	Sewage	3.00	Employee received a request from DS 12 to suck out the sewage storage tank. When the employee arrived, he found a male cam lock cap on the end of the connect site. Employee removed the cap expecting the line to be empty, due to the fact that he had checked to be sure the valve was still shut off inside the building. When he opened the cap approximately 3 gallons of sewage spilled out on the pad.	Hand tools were used to remove contaminated snow.	Material was but back into waste treatment plant.	Notification was made to ADEC Waste water Divison.
8/3/01	2001-IR-85050	Well Pad S, S-pad	Crude Oil	3.00	The S-Pad operator discovered a 3 gallon spill from vent line while on routine rounds.	Hand tools/shovels were used to clean affected gravel.	Material was taken to Drill Site 4 Grind and inject.	Production operators are checking into the issue.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/25/01	2001-IR-101293	Drill Site 06	Hydraulic Fluid	3.00	Seal on surface safety valve leaked about 3 gallons of hydraulic fluid inside the well house.	SuperSucker used to clean entire well cellar area.	Pad 3 West pit	Information provided to ADEC per 18 AAC 75.300
8/30/03	2003-IR-606840	L-1, On L1 pad adjacent to well L1-15	Hydraulic Fluid	3.00	During routine operation on the pad in support of tubing changeout the hydraulic system developed a leak in the hose to the oil cooler. The leak was not noticed initially consequently a trail of spots were left in the path of the loader.	Contaminated gravel was recovered using a bobcat and placed into a dumpbox for disposal.	Material was taken to pad 3 for disposal.	Updated information on location of spill.
3/10/01	2001-IR-100994	Drill Site 16	Sulfuric Acid	3.00	While loading battery into pickup with loader, battery fell from pallet and broke open on impact with ground. Recovered neutralized acid and will dispose of at HWPM.	Recovered with hand tool and placed into bags for disposal	Will discard as hazardous waste	ADEC (Walt Sandel) notified 3/10/01 @ 0745
3/1/07	2007-IR-2173021	L-2, L-2 Pipeline Right of Way Ice Road; Lisburne Asset; GPB Area., GPMA	Lube Oil	3.00	A crack occurred in the Hydraulic Pump Casing on HCC Boom Truck # 600-629 causing a spill. The boom truck was parked. There was a containment under the hydraulic pump. After the crack occured in the hydraulic pump casing, the containment overfilled and resulted in a spill to the ice road.	Hand tools and sorbents were used to capture fluids with in the containments and on top of the snow/ice. All impacted snow/ice was shoveled and chiseled up and all visible impact was removed.	Recovered snow and ice will be taken to T-pad for storage and future class 1 disposal. Contaminated absorbants will be disposed as oily waste.	Immediate notification was made to NRC.
10/8/04	2004-IR-1082354	Drill Site 01, DS 1 Manifold Bldg., FS1/SIP/STP	Corrosion Inhibitor	3.00	While performing normal daily rounds, the area chemical operator discovered a chemical spill that was caused by a leaking pipe union. Employee called 5700 and cleaned up fluid. A new union has been ordered. Notified HSE Advisors office and Superintendent.	Absorb was used to clean up spill.	Taken to oily waste facility.	Notifications were made to Agencies.
5/9/06	2006-IR-1827614	Flow Station 1, Outside 4912 at FS # 1, FS1/SIP/STP	Corrosion Inhibitor	3.00	While receiving a load of Corrosion Inhibitor 01VD121 to the storage tank in 4912 at FS # 1 a spill occured from the Tank Vent to the gravel pad outside. The starting tank level was 22". The Oil Operator requested Driver to S/D pump at 43" to allow tank to settle. The Oil Operator requested Driver to start truck pump again. According to the Oil Operator, the 01VD121 Storage Tank Sightglass filled up immediately with no time to react. The Oil Operator requested the Truck Driver to S/D pump. By that time some chemical had gone into the module sump and a little splashed outside from the storage tank vent line.	Hand tools were used to recover the contaminated snow and put in to a drum for testing.	Contaminated snow/fluid were taken to the Waste coordinator for Haz-waste disposal.	Immediate notifications were made.
6/8/06	2006-IR-1866025	Drill Site 14, Drill Site 14-30, FS3	Corrosion Inhibitor	3.00	Leaking quick disconnect on continuous corrosion inhibitor injection line, which caused a 3 to 4 gallon spill.	Hand tools were used to remove contaminated material.	Recovered material was brought to the Hazwaste coordernator for hazwaste shipment.	Agencies were notified of release.
3/28/06	2006-IR-1775848	Drill Site 07, DS 7 Pad., FS3	Methanol	3.00	After clearing snow around a dike, a Veco hardline crew loader operator was told to drop the bucket on loader #42101. As he was driving across the pad he raised the bucket to see if the pins had released from the bucket. In doing so his vision was obstructed and he could not see the methanol trailer in the path of the loader. The loader struck the methanol trailer with the right corner of the bucket. The impact resulted in a significant dent and a six inch gash in the tank approximately three feet up from the bottom of the tank. The loader operator observed methanol spilling from the tank and placed containment under the trailer. Notifications were made and an SRT crew was sent to determine the size of the release and clean up the spill site.	Hand tools werer used to remove contaminated material from pad, and containment.	Material will be melted down and reused for freeze protect.	Agencies were notified of release.
3/11/07	2007-IR-2187216	Lisburne Production Center, LPC MODULE 23, GPMA	Sewage	3.00	VAC TRUCK OPERATOR WAS OFFLOADING LPC SEWAGE HOLDING TANK. HE DISCONNECTED THE HOSE WHILE UNDER VACCUM TURNED TO PLACE HOSE IN RACK AND NOTICED LIQUID COMMING OUT OF SCRUBBER STACK. OPERATOR SHUT OFF HYDRALIC PUMP AND CONTACTED LPC CONTROL ROOM. THE CONTROL ROOM CONTACTED SRT FOR CLEANUP INSTRUCTIONS. VAC TRUCK OPERATOR WAS AUTHORIZED TO CLEAN UP SPILL. SPILL AREA WAS CLEANED AND BAGED AND DISPOSED OF AT PBOC WASTE WATER PLANT.	Hand tools were used to recover the contaminated snow.	Disposed into the WWTP wet well.	Immediate notification was made.
2/18/01	2001-IR-100545	Main Construction Camp (MCC)	MEG	3.00	Security discovered spill on routine patrol. Spill was located between outer bullrail and road at MCC.	Recovered Product/snow with hand tools and placed into bags for disposal	1 cu. yd. of glycol contaminated snow taken to pad 3	Responsible Vechicle is unknown
4/14/04	2004-IR-868208	Drill Site 02, Drill site 2 well #33, FS1/SIP/STP	Crude Oil	3.00	While performing a hot oil wash on DS 2-33 a FC-324 Aeroquip hose came apart where the hose is crimped to a one inch NPT fitting. Two hoses are used in our operations to maintain the minimum fifty-foot distance from the well house. The coupling that failed was on the ground in front of the well house. Before the job had started the crew had pressure tested the hose to 3000 psi. They started the job by pumping 100 bbls of crude down the flow line. After shutting down and swapping the tree valves they started pumping down the tubing at 1.6 bpm 1600 psi. Ten barrels into the tubing wash the hose coupling failed. The whip check between the hoses on the ground held minimizing the effects of spraying and keeping the hose from whipping around. The crew then followed SOP by shutting down the unit, shutting the SSV valve remotely, and cooling off the coils by circulating back to the unit tanks. After determining the check valve on the tree was shut the crew then shut in the companion valve, and called their supervisor.	A loader and bucket was used to recover the contaminated snow and was put into a dumpbox for disposal.	Material was taken to G & I for disposal.	This is the final report.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/7/01	2001-IR-122934	Main Construction Camp (MCC), MCC Medical Facility	MEG	3.00	Approximately 3 gallons of glycol leaked from a Victraulic coupling on a 3" glycol line on to the gravel pad below the MCC Medical Facility.	Contaminated gravel was removed with hand tools.	Contaminated gravel was brought to pad for disposel.	.
11/16/01	2001-IR-135097	Well Pad D, D-26 wellhead	Crude Oil	3.00	Grease fitting on Swab Valve leaked out about 3 gals of crude.	Clean up was done with sorbents, shovels and rags.	The sorbents and rags used to wipe affected area were taken to the NSB oily waste dumpster for disposal. The gravel was taken to Santa Fe pad accumulation bin and will be disposed of at Pad 3 disposal facility.	
5/2/04	2004-IR-887486	Well Pad S, S-38 wellhouse, GC2/SAT	Hydraulic Fluid	3.00	A pressure switch in wellhouse S-38 leaked about 3 gallons of hydraulic fluid.	Shovels were used to remove contaminated gravel from Well house.	The gravel will be taken Pad 3 disposal facility, The sorbent material from the liner under the hydraulic panel was placed in a oily waste bag and taken to an approved NSB oily waste dumpster.	
6/28/05	2005-IR-1433500	Well Pad A, A Pad Well 6, GC3	Corrosion Inhibitor	3.00	Pad operator found leak at the base plate of the SKOFLO valve on A-6. The spill breached the pan containment. SRT was notified.	The wall and pipework that had spray on it was wiped down with rags and cleaning solution. The contaminated gravel in the well cellar area was removed with shovels and placed in a loader bucket.The contaminated well cellar boards were removed and cut up for disposal.	Contaminated gravel was determined to be non-hazardous and will be taken to Pad-3 for disposal. Rags and well cellar boards were taken to an approved NSB oily waste dumpster.	
2/8/03	2003-IR-431980	Well Pad V	Diesel	3.00	Ice containing diesel trapped in a catch tray of a dual PRV (pressure relief valve) skid was melted by a indirect fired heater hose that was heating the skids valves and was subsequently blown / drained from the skid tilted on the melting ice pack. Spilled material then blended with the snow/ice melt under the skid.	Contaminated snow and ice was shoveled/chipped up and placed into oily waste bags for transportation to Santa Fe Pad to be melted prior to recycle.	Media will be melted then taken to GC-2 for recycle. Material in containment was recovered with absorbents and taken to WOA solid waste facility.	
5/30/03	2003-IR-524346	Central Gas Facility, Pad on the north side of CGFby LES skid.	Diesel	3.00	While pulling an air compressor behind a flatbed pick-up the vehicle driver initiated a sharp right-hand turn, stopped, backed up to gain distance from an obstruction in front of him, effectively "jack-knifing" the compressor and towing vehicle. During the backing portion of the maneuver, the rear of the vehicle came into contact with the compressor and broke a fitting off of an external fuel tank mounted on the tongue of the compressor. Approximately three gallons of diesel was released to the gravel pad. The driver and another employee stopped the spill and initiated the cleanup. The spill was reported at approximately 10:25am and SRT was dispatched to the scene. SRT assumed control of the situation and completed the cleanup.	Free standing fluids sorbed up. Contaminated gravel removed.	Contaminated Gravel removed with bobcat and dump box. Material was taken to pad 3 for disposal. Sorbants taken to oil waste disposal facility.	
3/5/07	2007-IR-2178767	Well Pad A, Corrosion Inhibitor pump area inside "Wellpad A" module, GC3	Corrosion Inhibitor	3.00	This morning corrosion inhibitor was found leaking from the stem packing of a valve in the chemical system at A Wellpad. The system was plumbed approximately 6 months ago with the primary pump in service and the second pump was out of service and not plumbed into the system. When the pump was repaired the ¿A wellpad¿ maintenance personnel plumbed the second into the chemical supply tubing. The pump that was originally operating was taken out of service and the second pump was utilized. The discharge tubing from the BPR(Back Pressure Regulator) was originally plumbed into supply tubing between inlet block valve and pump, with the inlet and outlet valves of the pump closed, pressure build up from the BPR discharge caused a leak through the valve stem packing. We will review that the MOC history of this system and initiate the MOC to correct the problem. The system has been returned to service with valves car-sealed in place in the BPR side of the pump to insure proper operation.	The affected floor was wiped clean using sorbents and rags.	The contaminated sorbents and rags were placed in oily waste bags and taken to the solid waste facility NSB approved oily waste dumpster.	
2/25/04	2004-IR-815999	NW Eileen, NW Eileen Reserve Pit, GC2/SAT	Hydraulic Fluid	3.00	Trimmer #22-521 experienced a failure of a hydraulic hose while operating in the NW Eileen Reserve Pit. SRT Responded.	Free standing liquid was picked up with absorbent pads.The contaminated snow and gravel was cleaned up with a loader and hand tools. The material was then placed in oily waste bags for disposal transportation.	Absorbent pads were taken to an approved NSB oily waste dumpster. The contaminated snow and gravel will be taken to T-Pad Storage pit.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/20/03	2003-IR-720496	Santa Fe Pad, Santa Fe Pad	Hydraulic Fluid	3.00	On 12/20/03 at approximately 18:15 hours, 3 gallons of hydraulic oil were released to the frozen snow covered gravel pad from the filter system of a Maxi Haul. The Maxi Haul operator had just finished dumping a load of snow on the edge of the pad when he got out to check and make sure that all of the snow had come out of the dump bed when he noticed hydraulic fluid leaking from the filter of the hydraulic system. He immediately disengaged the PTO and placed a large drip liner under the filter. He then notified his leadman on site, and all other appropriate notifications were made. It was found that there was a failure of the filter assembly. A mechanic was dispatched to the site to repair the unit. SRT responded and were standing by to clean up the area as soon as the Maxi Haul could be moved. There were no injuries associated with the event, and at no time was the released material in danger of reaching the tundra.	The contaminated snow on the gravel pad was removed with heavy equipment and hand tools. The free standing liquid was recovered with absorbent pads and placed in oily waste bags for disposal.	Contaminated snow has been taken to T-Pad Storage pit. All of the absorbent pads will be taken to an approved NSB oily waste dumpster.	
5/29/04	2004-IR-919534	Well Pad J, J-Pad, Well# 25, GC2/SAT	Crude Oil	3.00	A short time after pulling a "dummy" valve from a gas lift mandrel on J-Pad, well # 25, the tool string was flowed up the well bore resulting in the slickline parting and exiting out of the slickline stuffing box. A release of crude oil occured out of the stuffing box after the end of the slickline had been pulled through it. Well control was established and pressure packed off at stuffing box to prevent further release of crude oil. Prior to pulling the valve, annulus and wellbore pressures and fluid levels were identified to protect against being blown up the hole. After working the tools to pull the valve from the pocket the operator checked the tubing and annulus pressures and found there had been no change in pressures. The operator continued to pull the tools out of the well. With the tools at a depth of approximately 1700' the tools began to be flown up hole faster than the operator was able to keep up with, which resulted in the wire being parted and tools left in the well. Cause of sudden pressure undetermined.	A loader was used to remove contaminated gravel. Rags and sorbent materials were used to clean affected Well house and flow line.	The gravel was taken to Drill Site 4 Grind and inject facility. The rags and sorbents were taken to an approved Oily Waste dumpster.	
8/21/06	2006-IR-1949507	Well Pad W, W-37, GC2/SAT	Diesel	3.00	During Coiled Tubing Rigdown, a material release of both 50/50 methanol and diesel occurred. The job process at the time of the incident: opening valves prior to blowdown of the hardline. Initial indications are that, when a valve in the reverse out skid was opened, pressure from the Inner Annulus (IA) bled past two closed valves at the IA. The pressure also bled past a closed block valve in the reverse out skid. The pressure continued to the pump-in sub at the wellhead where it passed two open valves. The fluid then exited the top of the BOP stack (the lubricator had been unstabbed as normal part of rigdown).	A loader and shovels were used to remove contaminated gravel from the well pad. Sorbents were used to clean tree and portable spill containment over cellar.	The sorbents were taken to an approved NSB oily waste dumpster. The gravel was taken to Pad 3 disposal facility.	
8/21/06	2006-IR-1949507	Well Pad W, W-37, GC2/SAT	Methanol/ Water (50/50)	3.00	During Coiled Tubing Rigdown, a material release of both 50/50 methanol and diesel occurred. The job process at the time of the incident: opening valves prior to blowdown of the hardline. Initial indications are that, when a valve in the reverse out skid was opened, pressure from the Inner Annulus (IA) bled past two closed valves at the IA. The pressure also bled past a closed block valve in the reverse out skid. The pressure continued to the pump-in sub at the wellhead where it passed two open valves. The fluid then exited the top of the BOP stack (the lubricator had been unstabbed as normal part of rigdown).	A loader and shovels were used to remove contaminated gravel from the well pad. Sorbents were used to clean tree and portable spill containment over cellar.	The sorbents were taken to an approved NSB oily waste dumpster. The gravel was taken to Pad 3 disposal facility.	
5/21/04	2004-IR-910257	Well Pad U, U-11 wellhouse, GC2/SAT	Hydraulic Fluid	3.00	The diaphragm of the high pressure switch on the U-11 SVS hydraulic panel failed, allowing hydraulic fluid to leak into the well cellar.	The contaminated water and hydraulic oil was removed from the well cellar with a vac truck. Contaminated ice and snow was shoveled into oily waste bags for disposal transportation.	The contaminated well cellar fluids have been taken to Pad-3. Contaminated ice and snow will be taken to Pad-3.	
7/5/06	2006-IR-1896979	Central Gas Facility, CGF 4908, CGF/CCP	Therminol	3.00	THERMINOL FLUID WAS BEING DRAINED FROM PIPING ON THE FIRED HEATER IN PREPARATION FOR REPLACING FLANGE GASKETS. A DRAIN VALVE WAS INADVERTANTLY OPENED FOR A CONNECTED, OPEN-ENDED HOSE. THERMINOL WAS SPILLED ON THE PLATFORM GRATING AND TO THE PAD BEFORE IT WAS NOTICED AND THE VALVE CLOSED.	A bobcat and dump box was used to recover the contaminated gravel. Absorbent pads were used to clean up the material spill on the grating.	Contaminated gravel was taken to Pad-3 for future remediation and the absorbents were disposed as oily waste.	
1/16/03	2003-IR-415310	Well Pad W, W-02 wellhouse	Hydraulic Fluid	3.00	A piece of 3/8" stainless steel tubing that is part of the hydraulic safety valve system blew out of a Swagelok fitting, causing fluid to leak inside the W-02 wellhouse.	Shovels were used to remove contaminated gravel from Well house.	The contaminated gravel was taken to the SRT accumulation bin and will be taken to Pad 3 disposal facility.	
12/30/06	2006-IR-2104493	Well Pad P, inside well house walls on P-27 and some mist on the ground in front and to the side, GC1	Crude Oil	3.00	Crew had completed a Gas Lift Survey and shut in and bleed off the pressure.when they were sure pressure was evacuated ,proceeded to unstab the surface pressure equipment.They had done a pop and drop to ensure all fluid were evacuated.when they boomed up ,what ppeareed to be a ice plug blew well bore fluid out of the XO, Stricking the inside wall of the well house.	Sorbent materials were used to clean affected Well house. Handtools were used to remove contaminated snow outside the Well house.	The oily sorbents were taken to an NSB oily waste dumpster. The contaminated snow taken to G&I facility.	
1/16/05	2005-IR-1212448	Well Pad S, S-Pad, GC2/SAT	Sewage	3.00	S-Pad Envirovac Sewage Line froze and split. The line is heat traced, and apparently froze during the phase 3 weather.	A chipping bar and shovels were use to remove the frozen sewage.	Contaminated material was taken to T-Pad storage pit.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/21/07	2007-IR-2309901	Drill Site 02, DS-02-30B, FS1/SIP/STP	Diesel	3.00	During PT of MHA on back deck of coil unit, diesel was noticed coming out of the top of the BOP stack and onto the well house and down the sides to the pad. Although all the valves going to the BOP's were closed and double checked. The pressure from the CT was bled down through a 1/2" hose tied into the backside of choke out to the Tiger Tank, all the valves going from the choke to the BOP's were also confirmed to be closed. SRT and Safety Coach was notified and Coach did a site inspection right away.	Free standing fluids picked up with absorbents. Walls wiped down. Contaminated gravel was removed with hand tools and put in bags for disposal.	Absorbents & Rags sent to oily waste. Gravel was removed to Pad 3 for storage and remediation.	
1/26/03	2003-IR-421350	Drill Site Maintenance, Prudhoe Bay, DSM Pad	Diesel	3.00	On 1/26/2003 at approximately 13:00, a Wells Support Vac truck driver noticed some fluid leaking from the rear doghouse on another unit. The driver reported the incident and a drip liner was placed under the leak. Upon investigation it was found that the rear agitator-packing flange of Vac unit 86051 was leaking. Dispatch records indicated that the fluid was a water/diesel emulsion. SRT was notified and they responded to clean up the contaminated snow and ice. Volume was determined to be 3 gallons. The area was cleaned up, and the material will be packed into drums for benificial reuse.	Hand tools were used to remove material.	Contaminated material was put in to drums, and will go for benificial reuse at a later date.	
1/28/03	2003-IR-423569	Well Pad D, D-Pad Well-8	Seawater	3.00	While getting ready to pump 2% KCL through a 3rd party filter then down the production tubing, a spill occured on D-08. When the operator opened the valve from the upright source tank to the 3rd party filter skid, a butterfly valve began to release fluid. This valve was partially open allowing for the release. On the filter skid, the unfamiliar style of butterfly valve appeared to be in the closed position, but was not. The pressure forced the cap from a camlock fitting, which only had one locking ear. Operator immediately shut off the source tank valve and notified company rep, supervisor, SRT and QHSE. SRT estimated the volume of the spill at 3 gallons to the pad. Affected area was marked off with cones for clean up after crew leaves location.	Loader and bucket was used to remove conataminated snow from pad.	Contaminated snow was removed with loader and bucket and taken to T-Pad storage facility.	
7/23/03	2003-IR-575152	GC-2, GC2 Pad outside skid 301	MEG	3.00	The glycol inlet valve to an out of service transit gas heat exchanger in skid 301 was in the open position and the system was at normal pressure. During the start up of glycol circulation pumps in another skid, the system pressure increased enough to open the relief valve on the out of service exchanger and flow glycol into the vent line which dumps outside the module.	The contaminated gravel was recovered using shovels and placed into oily waste bags, the facility wall below the vent was hand wiped with sorbent pads.	The contaminated gravel was taken to an approved accumulation bin at Santa Fe Pad, GPB.	
8/8/06	2006-IR-1936274	MOWF Storage Yard, Non Process Area	Hydraulic Fluid	3.00	While using a direct push geoprobe rig there was a hydraulic hose failure which resulted in a three gallon fluid leak. This was located at the Tuboscope remediation area. Contractor notified spill response and environmental advisor.	Shovels were used to removed contaminated gravel.	The material was taken to the GBP Waste coordinator for evaluation and proper disposal.	
9/5/07	2007-IR-2396172	MOWF Storage Yard, MOWF East perimeter of Storage Yard, Non Process Area	Diesel	3.00	An operations support technician identified gravel staining originating from an out of service tanker (68-231) on the far east perimeter of the MOWF storage yard. The tanker is listing to the south. The release was coming from an underneath compartment that is assumed to house the generator for the pump. The diesel is suspected to be leaking from the fuel tank for this generator. The tanker is not known to have been in service for greater than 5 years and the last service records for the tanker are from 1999. SRT was notified and immediately responded. The soiled gravel was cleaned up and disposed of in oily waste bags. It is uncertain as to how long the leak had been occurring. SRT field quantified the release volume at 3 gallons. A secondary containment and absorbs were placed under the leaking compartment. The tanker is registered to AES.	Hand tools were used to recover the contaminated gravel and placed into oily waste bags for disposal	The contaminated gravel will be taken to pad-3 for storage and future remediation.	
10/19/01	2001-IR-126246	Well Pad S, S-106	Diesel	3.00	On 10/19 at approximately 0300 hrs while making my routine rounds I stopped by well S-106 to check on the Milroy pump that's being used for continues methanol injection down the I.A.. I noticed that the small reservoir that feeds the Milroy pump needed to be filled. I filled the reservoir with the triplex pump, when I opened the access door on the triplex I found the containment area inside the unit to be completely full of diesel. I checked the upper reservoir to be sure there was room and then used the small centrifugal sump pump to empty the containment area back into the supply reservoir. The supply valve from the diesel tank was in the open position. apparently the fluid was draining from the supply tank into the containment area, I'm not sure where the actual leak was but I am sure that the supply valve is supposed to be closed when not in use. Upon further inspection I noticed that a small amount of diesel had leaked from the front of the triplex onto the ground, it's this fluid that we turned in as a spill.	Clean up was done using shovels and ice chippers.	The recovered material will be recycled as hydrocarbon recycle or freeze protect.	
2/24/04	2004-IR-815437	CPS Pad, CPS pad in the area of skid 104 garage, Non Process Area	Diesel	3.00	A 3 gallon diesel spill was noted by the garage skid 104 on the CPS pad. The source and cause of the spill is unkown at this time.	Contaminated snow was shoveled into a loader bucket and transported to Santa Fe Pad to be melted down and recycled.	The snow is being melted down and will be taken to GC-2 for hydrocarbon recycle.	
8/19/05	2005-IR-1508222	Drill Site 06, Drill Site 6 Well 14, FS3	Crude Oil	3.00	DSO found unknown material in well cellar and also bubbling gas. Environmental was contacted. Analytical lab data indicates that material is fresh water, betonite and shale with light oil on the surface. Consultation with well integrity engineers indicates that material is likely completion fluid / solids from outer annulus brought to surface by rising ground water in pad.	Contaminated gravel and drilling completion solids were recovered with a super sucker and hand tools.	Recovered material sent to Grind & Inject waste handling facility for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/4/06	2006-IR-2040435	Drill Site L3, T3C between LPC and L3 on the flowline road, GPMA	Transmission Fluid	3.00	A hose trans. hose failed on loader 52-306 releasing 3 gallons of hyd. fluid at T3C.	A loader was used to gather contaminated gravel and place in a dump box for disposal.	The contaminated gravel was taken to Pad-3 for disposal and future remediation.	
12/25/06	2006-IR-2097902	Well Pad Z, Z-21 Well House, GC2/SAT	Methanol	3.00	Crew was attempting to freeze protect flowlines through a needle valve in a tapped flange connection on top of flow cross. Schlumberger CTU had performed acid pumping operation through same flanged connection. After CTU Operations SLB rigged off flow cross, reinstalled tapped flange. Flange bolts were found to be hand tight.	The contaminated snow and gravel was removed from the well cellar with shovels and placed into oily waste bags for disposal transportation.	The contaminated snow and gravel will be shipped offsite as hazardous waste.	
8/16/04	2004-IR-1017253	Well Pad K, Behind K-04 wellhouse, GC1	Hydraulic Fluid	3.00	The coupling and seals of the hydraulic pump for K-04 failed, allowing three gallons of hydraulic fluid to be pumped onto pad.	All of the contaminated gravel was removed from the pad with shovels and placed in oily waste bags for disposal transportation.	All of the contaminated material will be taken to Pad-3 disposal facility.	
7/16/01	2001-IR-71535	Well Pad K, K Pad, well 3	Hydraulic Fluid	3.00	Operator was conducting daily inspection of K-3 and noticed a blown seal on a subsurface safety valve. Spilled material was contained in well cellar.	All of the contaminated gravel was removed from the well cellar with a super sucker crew.	All of the contaminated gravel has been taken to Pad-3 disposal facility.	
8/5/04	2004-IR-1003958	Well Pad W, W Pad Rig - Doyon 16, GC2/SAT	Diesel	3.00	Tanker filling tank on #4 gen. 3 gallon belched out over flow tube. Tank was not full - possible air pocket in tank.	All contaminated gravel on the pad was removed by heavy equipment and hand tools. Material was then placed in dumptruck for transportation to disposal site.	Contaminated gravel will be taken to pad three gravel disposal facility.	
10/13/06	2006-IR-2015165	Flow Station 1, FS-1 North east side of pad, FS1/SIP/STP	Diesel	3.00	A rental portable heater metal fuel tank developed a crack and leaked 2 gallons of diesel fuel onto pad.	A loader and hand tools were used to recover the contaminated gravel.	Contaminated gravel was taken to Pad-3 west pit for future remediation.	
3/19/05	2005-IR-1287901	U-11 (EOA Building), U-11, EOA, Non Process Area	Hydraulic Fluid	3.00	We had to borrow a Truck/tractor from Roads & Pads (unit # 42-009) to pull our lowboy. The truck was parked in front of U-11 idling. After we had been in possesion of the truck for 20 miniutes the filter assembly for the hydraulic system blew off the truck. A Norcon employee parked about 10 feet away when it happened jumped out of his truck and shut down tractor # 42-009. The filter housing, filter, and hydrolic fluid (aprox. 3 gal.) was cleaned up with absorbants ASAP. SRT was called and they cleaned up the contaminated ice later in the day.	Sorbent was used to remove standing fluids, Bobcat, an dumpbox removed contaminated snow.	Sorbent went to oily waste. Contaminated snow went T pad for disposal.	
5/7/01	2001-IR-144052	PBOC, PBOC Bull rail	Diesel	3.00	Diesel spill as a result of rock becoming lodged between fuel tank and skid plate.	Recovered product with loader and hand tools.	2 cu. yrds of lightly contaminated gravel taken to Pad 3 for disposal.	
9/18/01	2001-IR-117788	Drill Site 06, In front of DS 6-11 on gravel pad.	Crude Oil	3.00	A Little Red Service pump truck was rigged up to the companion valve on DS 6-11 to freeze protect the well. The crew pressure tested the equipment to 4000 psi. After pumping 26bbls. of crude oil the pressure suddenly dropped to zero. The pump operator shut down the pump and the pump helper shut in companion valve securing well. The pump operator then utilized the unit's bowie pump to evacuate the remaining fluid from the hose and shut down the unit. The crew inspected the location and found that the 1 1/2" pumping hose had failed at the crimp connection. The crew had the required whip checks in place which prevented further separation of the hoses and the check valve that was installed at the companion flange prevented any flowback of fluids from the well. The pump operator then contacted Spill Response, the LRS Manager, and the pad operator via the board operator. The LRS Manager immediately notified the Well Ops. Supervisor of the incident. Spill response arrived on-site and estimated that approximately 3 gallons of crude was spilled onto the gravel pad. The pad operator, LRS Manager, GPB Wells Supervisor, and Wells HSE Advisor arrived to investigate incident. There were no injuries resulting from this incident.	Recovered product with Bobcat loader and placed into dump box for disposal at G&I.	7 cu. yrds of lightly contaminated gravel taken to G&I for disposal.	
2/4/01	2001-IR-98919	Well Pad U	Lube Oil	3.00	The Oiler placed a containment in front of the Side Boom to service the Side Boom. After changing the oil filter (Cat IRO-659) on a CAT 583 Side Boom, the Oiler started the engine and noticed the filter leaking. Prompting him to shut the engine down. He notice the oil spilling out the back of the enviroshield under the engine. He then placed another containment under to prevent further oil spilling on the pad. Amount of bags collected, 6 half full of snow and oil. Two bags of absorbants.	Contaminated snow was shoveled into oily waste bags for disposal by the houston clean up crew. Absorbent was taken to an approved oily waste dumpster.	Contaminated snow will be taken to Pad-3 for Class I disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/3/06	2006-IR-1892515	Fleet Shop, PBOC Fleet Shop Ready Rail, Non Process Area	Diesel	3.00	On the afternoon of 03 July 2006, at approximately 1:50 pm, an employee was extracting diesel from the fuel tank on Triplex Pump # 90-525 in front of the PBOC Fleet Shop. The employee was using a pump to move the fuel from the tank into the waste oil tank on the BP Field Oiler Truck. As the task was nearing completion, the employee heard liquid splashing on the ground, and went around and saw that fuel was falling on the ground under the waste oil tank, which was mounted inside the rear box on the Field Oiler Truck. The fuel had run out of the tank filter, mounted on top of the tank, and onto the floor inside the box. It then ran down the stairs and onto the ground. The employee then put down a containment pit to catch what he could. The release was immediately reported. SRT determined the amount released to the ground to be approximately 3 gallons. The release was picked up and hauled away by SRT. Incident will be classified as a spill.	A loader was used to scrape up the area and then placed into a dumpbox for disposal.	The contaminated gravel went to Pad-3 for future remediation.	
6/6/04	2004-IR-928493	Access Road, Access road between E and K pad, Non Process Area	Transmission Fluid	3.00	While in the process of performing dust control, with unit # 34-002, the transmission locked up. The driveline separated from the transmission causing approximately 3 gallons of transmission fluid to release to the gravel road.	A loader and hand tools were used to clean affected gravel.	The contaminated gravel was taken to Pad 3 disposal facility.	
7/17/01	2001-IR-54727	Access Road, Access road between the Spine and Tool Service Building	Paint	3.00	Tool Service flatbed was returning from Stores with a load of freight;while turning off the Spine road onto the access road the shrink wrap on a pallet of paint broke and three five gallon buckets that fell from the truck and leaked onto the gravel road.Environmental was called and the paint cleaned up.	The contaminated gravel and paint was shoveled into oily waste bags with hand tools.	Material will be sent offsite in hazardous waste shipment.	
3/17/02	2002-IR-186404	VMS Building, VMS pad on the WOA	Diesel	3.00	Bolt holding fuel tank tiedown strap broke. Tank tilted spilling two gallons of diesel on pad	Heavy equipment and hand tools were used to scrape up the contaminated snow/ice.	The contaminated snow/ice will be melted down as recycled.	
8/4/06	2006-IR-1932424	Central Checkpoint, West check point road surface., Non Process Area	Diesel	3.00	The operator filled truck #82215 with diesel sometime during his shift. At approximately 11:30 PM he transited the Central Checkpoint. About 01:00 AM one of the guards discovered staining on the entry roadway outside the shack (while seated they cannot see directly below the windows). The guard shacks have video cameras recording both entry and egress. The guards reviewed the recordings and found that the stains were not there when the driver of truck 82215 stopped to swipe his badge but appeared after his truck departed. They informed VECO Base dispatch. Dispatch promptly contacted the operator. According to dispatch the driver ¿looked and said there was nothing leaking¿. Dispatch followed up by having another operator look at where the employee was staging trailers at DS-15/Nordic 1. This operator did find contaminated soils there. SRT was notified and the contaminated material was cleaned up and disposed of in accordance with regulations.	Hand tool's were used to remove contaminated gravel from road.	Cont6aminated material was brought to Pad 3 for disposal.	
9/7/06	2006-IR-1970899	West Dock Road, West dock road near the causeway, Non Process Area	Hydraulic Fluid	3.00	While dumping a rear trailer on a set of double end dumps, the trailer jumped out of the pivot locks, which caused damage to the hydraulic ram. When the hydraulics were engaged the ram split open and spilled approx 3 gallons of oil to the ground and a spill containment.	Bobcat, and dump box were used to remove contaminated gravel.	Contaminated material was brought to Pad 3 for disposal.	
8/1/07	2007-IR-2357194	Drill Site 14, DS 14 pad., FS3	Hydraulic Fluid	3.00	Electricians were working on the outdoor lights around the Manifold building using the Condor. One of them came out from the Control skid and noticed fluid coming out from underneath the condor. He went to get a containment pit and some absorbent, and the one operating the machine was almost to the ground, so he continued until he was all the way down. They shut the machine down and placed absorbent around the area. Then made all the appropriate notifications.	Bobcat and dump box were used to remove contaminated gravel.	Contaminated material was brought to Pad 3 for disposal.	
12/3/02	2002-IR-383436	Well Pad W, W-Pad next to the 501 mini module.	MEG	3.00	Workers were in the process of Hydrotesting a 6" line when they noticed the pressure would not hold. When they were walking the line down they discovered a threadolet leaking. This line was installed by another contractor and the threadolet was not indicated on the drawings and was not tight. The threadolet was obscured by the insulation and snow on top of the pipe. All the other connections had been checked prior to the hydro-test.	All of the contaminated gravel has been removed from the reserve pit area.	Contaminated snow has been taken to T-pad storage pit.	
5/4/04	2004-IR-892135	SRT Shop, SRT bullrail, Non Process Area	Hydraulic Fluid	3.00	While unloading dump box from autocar, hydraulic hose failed, causing hydraulic fluid to be released to ground.	Loader,dumpbox and absorbant were used to remove material.	Contaminated material was taken to T-Pad for disposal.	
2/12/06	2006-IR-1721188	Drill Site 09, Middle east side of pad, about 15' from the edge, FS2/COTU	Hydraulic Fluid	3.00	Norcon was cleaning up around some old f/l's, when they found an OTIS panel on it's face with hyd fluid around it. Fluid leaked out of the vent cap.	Hand tools were used to recover the contaminated snow.	Contaminated snow will be taken to T-pad for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/14/05	2005-IR-1282765	PM-2, West Dock Causeway and Drill Site PM2, GPMA	Transmission Fluid	3.00	Operator was in route to P2 when traffic slowed for wide load along the causeway road. Once clear of the traffic he proceeded out to the drill site. The operator was notified of the spill by one crew members from the rig move. The truck was turned off, a spill dike was placed under the leak, and the fleet shop was notified.	A grader was used to scratch up the trail of oil. Then a bobcat was used to pick up the contaminated snow and put it in a dump box for disposal.	Contaminated snow was be taken to T-pad for disposal.	
5/30/04	2004-IR-919328	Spine Road, Spine road at the U - building access road., Non Process Area	Diesel	3.00	While moving heater #88-689 expeditor noticed fuel coming from fuel filler neck. He stopped his vehicle to check and found that the fuel cap was missing. The fueler had filled the heater and forgotten to reattach the fuel cap.	Absorbents were used to recover the diesel on the road. Then floor dry was used to recover any remaining residue.	Contaminated material will be disposed as oily waste.	
11/29/01	2001-IR-139465	Well Pad S, S-Pad access road	MEG	3.00	Radiator of a 5 ton truck, unit # 500-36, discharged engine coolant through the radiator overflow.	The contaminated snow was cleaned up with hand tools by crew onsite and material was placed into oily waste bags.	Material will be taken to Pad-3 disposal facility.	
2/1/07	2007-IR-2141070	Flow Station 3, FS-3 Mod 4925, FS3	Lube Oil	3.00	FS3 4925 15106 T/C lube oil demister allows oil vapors to escape collecting on the module roof that has a collection of snow. When the ambient or roof warms it causes the snow to melt allowing the contaminated liquids run down wall and collect on the snow below. A large spill dike sets under the module wall to capture the liquids. This is an ongoing issue.	Hand tools were used to recover the contaminated snow and placed into oily waste bags for disposal.	Contaminated snow was taken to T-pad for disposal.	
6/25/04	2004-IR-952542	Drill Site 07, well 7-13 lateral valve., FS3	Crude Oil	3.00	A grease fitting on well 7-13 lateral valve was found to be leaking slightly and reported.	Material was recovered with a super sucker and hand tools.	Contaminated gravel was taken to G&I for disposal.	
10/2/04	2004-IR-1076063	Well Pad J, J-07 wellhouse, GC2/SAT	Hydraulic Fluid	3.00	While making his rounds on J-Pad, the operator discovered a pool of hydraulic oil in the wellhouse. The source was the pressure switch on the hydraulic system.	Shovels were used to clean affected gravel in Well house.	The material was taken to Pad 3 disposal facility.	
4/29/06	2006-IR-1813575	Other BP Locations, Spine road between AIC and the spine road, Non Process Area	Hydraulic Fluid	3.00	A loader/blower comber was clearing the spine road in Deadhorse when a hose fialed spilling 2 to 3 gallons onto the ground.	A grader and loader was used to recover the contaminated material and placed into a dump box for disposal.	Contaminated snow was taken to T-Pad for disposal	
2/26/05	2005-IR-1257812	Chemical Tank Dock, C-Pad Chemical dock, Non Process Area	Hydraulic Fluid	3.00	The driver attached the hydraulic connection on the ¾ inch hose. The female end is rigidly mounted; the male connector is on the hose. The driver made up the fittings in the usual way, entered the cab and began to pressure up the system. When the pressure hit the fitting the connection separated and the mechanical check valve in the male fitting jammed opened allowing hydraulic fluid to spray out of the fitting. The male fitting the failed was changed out. After inspection it was found that the check valve spring was considerably weaker when compared to a new fitting. The check valve in the new fitting was jammed opened on the same female connection. Approximately 3 gallons of Hydraulic fluid was released and all notifications where made.	Loader and dump box were used to remove contaminated material.	Contaminated material went to T Pad for disposal.	
1/17/07	2007-IR-2124183	Pad 3, PAD-3, Non Process Area	Transmission Fluid	3.00	Employee was waiting in line at Pad-3 to be loaded in truck 143-022 when he felt a jerk at the steering wheel. He shut down the truck and placed spill containment under the truck where fluid was leaking out. SRT was called and the employee called the proper persons in the reporting matrix. The field mechanic was called and it was found that a power steering hose fitting had failed. SRT cleaned up the spill and the field mechanic replaced the failed hose. This Spill will be investigated by AES and reported back to Field Services TL.	BOBCAT AND DUMP BOX WERE USED TO REMOVE CONTAMINATED MATERIAL.	Contaminated material went to T pad for disposal.	
7/2/01	2001-IR-144062	Drill Site 14, DS# 14/17	Crude Oil	3.00	DSO discovered oil under valve during routine inspection. Spill was a result of packing failure on stem packing.	Recovered with hand tools and placed into bags for disposal.	1 cu. yrd of material taken to G&I for disposal.	
2/27/01	2001-IR-100595	Well Pad K	Crude Oil	3.00	HB$R unit 375 and 2 man crew were freeze protecting the flowline on k08 with dead crude. The operator was pumping the crude recipe down the flow line and the extra hand was doing his walk around and saw crude oil running out of the truck under the triplex. They immediately shut down pumping and placed containment under the leak. They then called thier supervisor and the pad operator. The supervisor notified the spill tech and field SPOC, and called 5700 to report the spill. It was determined that the valve on the line running to the sump for sucking it out hadn't been fully closed causing the sump to overflow during the course of the pump job. Approximately 3 gallons were spilled of dead crude.	WOA spill tech. and truck crew shoveled all contaminated snow into oily waste bags with hand tools.	Material will be taken to Pad-3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/19/04	2004-IR-748854	PM-2, PM2 Module 4915, GPMA	Scale Inhibitor	3.00	A load of scale inhibitor was needed at PM2. Prior to taking on chemical, the nominal 700 gallon tank was strapped. The strapping indicated 3 inches of chemical left in the tank or 36 gallons remaining (1 inches equals 12 gallons). The chemical delivery truck arrived on location and coordinated with the operator to hook up and to begin taking on chemical. Radio communication was maintained. During a filling operation, the operator monitors the sight glass to ensure that the tank is not overfilled. The maximum operational level in the tank when full is 51 inches or 612 gallons. This allows an 7inch (88 gallon) cushion. The sight glass is the only means of monitoring the level in the tank as there is no level transmitter on the tank. There are also no fill meters for the tank nor is there a discharge meter on the chemical delivery truck (#512). The Operator was at his station watching the sight glass slowly rise indicating that he was receiving chemical. Scale inhibitor has a relatively high viscosity. When the sight glass reached 36 inches it rose suddenly. The filling operation was immediately shut down. Chemical exited through the tank overfill line that rises above the tank and exits the module. The chemical splattered the module wall and landed on the drillsite pad. The material that spilled had a lot of solids and it is these solids that is believed to have partially plugged the sight glass and providing an erroneous level indication. It should be noted that the sight glass was recently flushed and cleaned. A sample of the particulates was obtained for analysis. Filling SOP was adhered to. The spill was promptly called in and SRT arrived on location shortly thereafter.	Contaminated snow was recovered with hand tools and placeed into oily waste bags for disposal.	The material was taken to T-pad for disposal.	
2/15/04	2004-IR-795771	Well Pad F, F-Pad Well 16 lateral chemical injection 3/8 inch tubing at valve, GC1	Corrosion Inhibitor	3.00	Initial information report: A chemical operator noticed a slow leaking fitting at a chemical injection line union located near the lateral valve behind well F-16. All reporting protocols were followed. Quantity has not yet been determined. Cause of the leak appears to be a loose fitting connection. Since this is not an area of frequent activity, the reason for the loose fitting remains unexplained for now. The fitting was tightened and the leak was abruptly stopped.	Contaminated snow has been removed using shovels and heavy equipment.	Material has been taken to T-Pad Storage Pit.	
10/4/04	2004-IR-1076265	Well Pad V, GPB V-pad , GC2/SAT	Crude Oil	3.00	CTU # 9 was performing a Fill Clean Out with N2 lift coil tubing operation on V-115. Due to the job design and the use of foaming agent, returns were being taken to the outside 400 bbl open top tank. Samples and inspections were taken at the open top on a routine basis to insure not to foam over tank. The returns were then diverted to the middle open top tank for 2hours before the completion of the job. The job was completed and location inspection was performed by crew. Once the rigdown crew arrived location in the daylight it was noticed that there was a fine mist on the walkway of the tank, the containment dike and traveling down the well row. Notification calls were made and SRT responded to location for cleanup. The crude mist was over a 25X50 yard area and was estimated at 2 gallons out of containment. Investigation found that there was ~300 bbls of fluid in the outside tank and the N2 had carried the mist out onto the pad.	Sorbent material was used to clean the affected containment area. Shovels and a Bobcat were used to remove contaminated snow from the pad.	The snow was taken to T-pad storage facility	
9/29/07	2007-IR-2430611	Drill Site 04, DS 4 pad., FS2/COTU	Diesel	3.00	A worker found diesel under a unit of non mobile equipment on DS 4. Earlier in the day the fueler serviced the unit and did not observe any leaked fuel or material on the ground. The worker that discovered to leaked material identified that the unit was not parked in a level location at the time that the unit was discovered.	Loader, and dump box were used to remove contaminated material.	Material was brought to pad 3 for disposal.	
5/13/06	2006-IR-1832603	J Pad, EOA J-Pad staging area, Non Process Area	Hydraulic Fluid	3.00	A Well Support night crew member was moving snow on the ¿J¿ staging pad. He was pushing a pile towards the North West side of the pad. As he was backing up from the pile of snow he noticed hydraulic oil on the pad where the loader had been. He shut the loader off and made notifications, then placed absorb on the contaminated snow and ice. The cause of the spill was a ruptured hydraulic hose.	Loader, and dumpbox were used to remove contaminated material.	Material was brought to T Pad for disposal.	
9/1/06	2006-IR-1962702	Airport, Old airport runway, Non Process Area	Hydraulic Fluid	3.00	While employee was moving chip pile on old runway to new stock pile the main hose to the main control valve on loader 52-250 failed. SRT was informed and cleaned spill area. The hose is located under the cab of the loader. Veco maintenance has informed us that the cab of the loader will have to be removed to replace the hose. ASRC will investigate the hose failure on 9/2/2006 at 6:30 pm.	Bobcat and dump box were used to remove contaminated material.	Material was brought to Pad 3 for disposal.	
1/23/07	2007-IR-2129439	South Hangar, Wells Support equipment staging area., Non Process Area	Hydraulic Fluid	3.00	Crane #14100 had been in for repairs, when the repairs were finished the crane was brought back from the heavy equipment shop and was parked at Wells Support. The operator placed containment under the engine compartment and left the crane idling (per winter operations guide lines). An employee discovered a leak and promptly shut down the crane, placed a portable secondary containment below the area of the leak, and notified the foreman. The area of the release is approximately 6¿x 3¿. STR has determined the amount of the release to be three gallons.	Loader and dump box were used to remove contaminated snow.	Material was brought to T pad for disposal.	
2/21/05	2005-IR-1270041	PM-2, Drill site P2 in front of well #30, GPMA	Hydraulic Fluid	3.00	Triplex on pad blew a hydraulic hose, called it in as a 1-2 gallon hydraulic spill. Tom form SRT will be out this am to clean up and dispose of. The hose inside the engine room of the triplex filled up engine room and started running out of seams on frame. The fueller found it and called me, he was supposed to call "dispatch" and tell them about the triplex.	A Bobcat was used to recover the contaminated material and it was placed into a dump box for disposal.	Material was taken to T-Pad for disposal.	
6/5/07	2007-IR-2290636	Niakuk, Niakuk Pad., GPMA	Crude Oil	3.00	Worker moved a mobile slop oil tank. The tank's catch pan was full of snowmelt water and trace amounts of slop oil. The movement of the tank resulted in the oily water splashing out onto the pad. 6/12/07 Per SRT Lead Tech this is only a Material Release, need to change. Melba Walls	Bobcat and dump box were used to remove cntaminated material.	Material was brought to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/12/04	2004-IR-772573	Main Construction Camp (MCC), MCC Projects parking lot, Non Process Area	Motor Oil	3.00	While waiting for their lead to come out of Projects, employees in truck 14-598L reported that said truck began shaking for a few seconds, and died. They were parked there for 10 ¿ 15 minutes. The employees then noticed that there was a large puddle of engine oil under the truck. The truck was parked in the lot away from the bull rail out by the main road. Upon further investigation, it was believed that the truck had been leaking oil for quite some time. There was a trail in the lot, which led to a large spot right in front of the main door to Projects, and then around to where the truck seized up. The employees said they were parked over that spot for a few minutes, as well. SRT estimated a loss of 3 gallons of engine oil.	Contaminated snow was recovered with a bobcat and dump box.	Material was taken to T-pad for disposal.	
6/10/06	2006-IR-1866864	L-5, L5-15, GPMA	Diesel	3.00	During crew changeout a SLb employee noticed that the injector drain hose in the slop tank had a steady stream of fluid comng out of the hose. The employee immediately radioed the ops cab to instruct the supervisor to apply more pressure to the packoffs. After further investigationthe crew discovered that the diesel had dripped off of the injector and onto the top of the wellhouse and on the ground directly behind the wellhouse. All concerned parties were immediately notified.	Bobcat and dumpbox wereused to remove contaminated mterial.	Material was brought to G&I for disposal.	
6/8/07	2007-IR-2302938	Drill Site 04, DS4-31, FS2/COTU	Hydraulic Fluid	3.00	ESD DRUM WAS BLOWN OVER DUE TO EXCESSIVE WIND, AND NO WELL HOUSE SHELTER RESULTING OF SPILL OF HYDRAULIC FLUID	Bobcat and a dumpbox to the contaminated gravel.	Gravel was brought to Pad 3 for disposal.	
6/5/03	2003-IR-530948	PBOC, PBOC Bullrail	Diesel	3.00	Heat from the sun and warm weather caused diesel in the fuel tank to expand and leak out. The fuel tank was full.	Material was recovered using a bobcat and placed into a dump box for disposal.	Material was taken to Pad-3 for disposal	
5/2/03	2003-IR-499563	Drill Site 09, DS-9 well 28	Methanol/ Water	3.00	While pressure testing a coil tubing bottom hole assembly, a 5000-psi burst disc ruptured. Having just completed a 3500-psi pressure test on the BHA we started to bleed off when the disc failed causing approximately 1 gallon of 60/40 methanol to hit the pad. Generally the tools are pulled inside the lubricator so in the event of a leak all the spry will be contained on the deck of the coil unit. However with jars in the tool sting, as pressure is applied, the jars stroked open which exposed the burst disc below the bottom of the lubricator. The test plate being used does not allow the tools to be pulled far enough inside the lubricator to allow for the stroke of the jars.	Material was recovered with a bobcat and put into a dump box for disposal.	Material was taken to G&I for disposal.	
2/17/05	2005-IR-1246743	West Dock Road, West Dock Road and Oxbow Road, Non Process Area	Hydraulic Fluid	3.00	Snow blower #53-008. A hydraulic hose fitting which supplies the chute control split. Three gallons of hydraulic fluid spilled onto the West Dock road near the intersection with the Oxbow road. Area was coned off SRT notified. Investigation into the reason for the fitting splitting is pending.	Loader and dump box were used to remove contaminated snow.	Material was sent to Tpad for disposal.	
6/20/04	2004-IR-946219	Drill Site 02, DS 2 Pad, FS1/SIP/STP	Diesel	3.00	A emergency shower trailer (# 74128) was staged on location for a acid flow back job on DS 3-37. A fueler arrived location at 1200 and found that the generator was not running and added ~10 gallons of fuel to 80% of capacity without incident. There was no sign of a diesel leak at that time. At ~1430 there was a gas release in a skid on the pad, the testing crew stopped flowback operations, secured the well and their equipment. The crew then was then evacuated from location to the staging area at Pad 10. At ~1700 a member of the fire team noticed a leak at the drain valve for the generator shed and reported an inital 2 quart leak to 5700. Fire team capped the open drain to prevent additional material release. Once the pad was safe, SRT responded to location and found a 15 x 5 foot effected area in front of the shower and estimated the diesel spill at 3 gallons. The containment area inside the generator shed had standing diesel in the area of the drain hole. The area was scraped with a bobcat and contaminated gravel taken away by SRT. Investigation for the source of the leak will take place after the trailer is released from location.	Bobcat and dump box were used to remove contaminated gravel.	Material went to Pad 3 for disposal.	
1/9/01	2001-IR-95847	Niakuk Pad	Crude Oil	3.00	Draft: Halliburton was rigging down their lubricator after completing a wireline job at Niakuk #28 when crude oil was released from the bleed hose onto the pad. The crew was using a bleed tank that had a long hose that was coiled up in the tank's secondary containment . The hose was partially buried with snow and the crew did not realize that it was actually two hoses connected with a JIC fitting. When the crew began bleeding down their lubricator crude oil was released from the hose connection. The investigation revealed that the JIC fitting and hoses connections were loose. Approximatley 3 gallons of crude oil was spilled onto the snow covered pad. The crew immediately notified their Supervisor and APC Safety of the incident. The Environmental Department was dispatched to assess the spill, clean up the fluid, and dispose of the contaminated material properly. There were no injuries as a result of this incident and the tundra was in no way affected.	recovered with loader, hand tools and placed into dump box for disposal	4 Cu. Yds of snow to Pad 3 East Pit	
4/18/02	2002-IR-205426	Santa Fe Pad, Santa Fe Pad	Hydraulic Fluid	3.00	While doing snow removal on Santa Fe pad road grader # 58-308 experienced a ruptured hydraulic fitting spilling hydraulic oil on the pad. Security, SRT and the Peak project manager were contacted immediately.	The contaminated snow was removed using heavy equipment and hauled in a dump truck to the disposal facility.	Material will be taken to Pad-3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/2/03	2003-IR-499324	Drill Site 18, Behind wellhouse 18-14	Seawater	3.00	While running in hole to set a whipstock, coiled tubing unit #5 had a pack-off leak which released approximately 3 gal. of KCL water. The leak was discovered during a routine spill champion walk around. The leak had already stopped when noticed. Wellhead pressure was 350 psi and hydraulic pack-off pressure was 700 psi.	SRT did full clean-up using bobcat and dump box disposal to GNI	SRT clean-up dump box to GNI	
7/9/02	2002-IR-308598	GC-1, WSW, skid 306	Sewage	3.00	A pipe in the WSW envirovac sewage system corroded, releasing 3 gallons of raw sewage.	mop up	back into the sewage system	
1/19/01	2001-IR-95891	Drill Site 02	Hydraulic Fluid	3.00	While unreeling injector hose on unit #5 from the injector hose spool to pressure test a tool, the JIC fitting located on the injector hose reel became loose causing a small leak of hydraulic fluid. The operation was stopped and clean up began immediately. Proper notifications were made to safety and the non-emergency spill notification personnel. The JIC fitting was repaired and operations continued after pressure testing to insure repairs were completed properly.	Recovered with loader/hand tools and placed into dump box for disposal.	18 cu. yds. snow and ice	
8/22/96	1996-IR-89557	Well Pad Z	Crude Oil	3.00	During a flowback job on Z-23, a worker noticed a drip coming form a tiger tank. The tank was sucked out by a vac truck and moved. An estimated 3 gallons of crude had dripped from the tank onto the pad. The insulation was removed and a hair-line crack was found between the outlet valve and the tank.		The exempt sorbents were placed in an oily waste dumpster for incineration. Exempt gravel was placed in accumulation bins on Santa Fe Pad for disposal at Pad 3.	During a flowback job on Z-23, a worker noticed a drip coming form a tiger tank. The tank was sucked out by a vac truck and moved. An estimated 3 gallons of crude had dripped from the tank onto the pad. The insulation was removed and a hair-line crack wa
4/30/98	1998-IR-90586	NW Eileen	Diesel	3.00	During inspection of NWE #2 after the Pool rig was moved, a three gallon diesel spill was found. Meterial was cleaned up by Environmental, tested and disposed of at Pad 3.		Cleanup material (melted liquids) were taken to ARCO Pad 3 for non-hazardous waste disposal. Residual diesel on the tundra was burned in-place.	During inspection of NWE #2 following the removal of Pool Rig 8, a three gallon diesel spill was discovered. The spill occured on an ice pad. Inspection following thaw of the site revealed some diesel had reached the tundra surface, and discolored veget
2/6/97	1997-IR-89766	Drill Site 03	Crude Oil	3.00	The rig was reverse circlating well #3-3 to begin a workover job. Freeze protection diesel was being routed to the gas buster via the choke. During this operation, approximately 3 gallons of crude oil mist escaped out the top of the gas buster. The crude oil mist settled on the adjacent reserve pit (wind = 10 kts to west). The crew halted operations and made the appropriate spill notifications. Spill clean-up efforts were initiated and the contaminated snow was shoveled into bags. Arco and ACS completed the clean-up job.	Contaminated snow was cleaned up with shovels.	The contaminated snow was taken to the Class II disposal facility at Drill Site 4 and disposed.	Prior to beginning a workover job, freeze protection fluid was being circulated out of the well and routed to the gas separater via a choke. During this operation, approximately 3 gallons of crude mist escaped out of the vent at the top of the gas separat
10/29/96	1996-IR-89723	GC-1 Oil Section	Crude Oil	3.00	While depressuring 1st stage test separator, the maintenance vent was opened to atmosphere. The test separator had approximately 3 psig of pressure at the time. At some point during this depressuring, liquids laying in the maintenance vent header went to atmosphere. Although there is a containment pit, the high winds during the venting caused a small oil mist on the snow.		Exempt clean-up material and affected snow was disposed of at Pad 3.	While depressuring 1st stage test separator, the maintenance vent outside Skid 25 was opened to atmosphere. The test separator had approximately 3 psig of pressure at the time. At some point during this depressuring, liquids laying in the maintenance ve
12/24/93	1993-IR-88423	GC-2 PWX Section	Crude Oil	3.00	At about 8:00 A.M., a Facility Electrician notified Skid 7 that a PWX tank appeared to be overflowing into the diked area. The DCS Operators checked the tank levels and found them well within limits as the tanks had been pumped down the previous night in preparation for maintenance. The Rover inspected the tanks and found T-8511 had spilled about 200 gallons of oil inside the lined dike area and about 3-5 gallons had been blown by the wind outside the dike onto the snow. DCS Operators closed the inlet and pumped down the tank until the top sample tap showed gas. It turns out that the LT-8511 level transmitter to DCS and high level alarm, LT-8572, froze up, indicating a level of 19.4 feet. The transmitter to the high level shutdown LT-8574, also froze up indicating about 24 feet. The tank is 40 feet high with the high level alarm set at 31 feet and the high level shutdown set at 38 feet. The overflow to dike alarm FAH-8574 also did not alarm. Subsequent inspection showed the circuit breaker to the transmitter O'Brien Box pan heaters had tripped. The heat trace tape circuits were still energized. Electricians reset the breaker and inspected all four pan heaters on the circuit. No problems were found. The heaters warmed the boxes during the day so the transmitters thawed out and returned to service.		All contaminated material was taken to Arco Pad 3 for melting.	High level indication system on the produced water skim tank froze, allowing tank to overfill. Crude oil floating on the produced water in the tank vented out the relief valve, and high winds blew approximately 3 gallons of the oily mixture outside the c

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/26/94	1994-IR-86353	Well Pad H	Diesel	3.00	While driving onto H pad, the driver of a guzzler truck observed a "radio silence" sign. While the driver was reaching to turn off his radio, the driver lost control and the truck went off the road turning onto its side causing some glycol to leak from the radiator and disel to leak from the fuel tank. There was a Motor Vehicle Accident Report filed (Report No. 94-011). The findings are as follows. On 3/25/94, at approximately 2320 hours, the employee was driving a Veco super sucker truck onto H Pad southbound. At the entrance of the pad was a sign which stated perforating was in progress and explosives were being used. The sign advised persons coming into the area to shut off their radio. The driver reached up and to the right to turn off his radio. When he did, the truck veered to the right and the right front wheel went off the shoulder. The driver was unable to correct and the vehicle went off the road and rolled onto its right side. The main tank of the truck was empty; the driver immediately shut off the diesel tanks; and no fuel or oil was spilled. There was no damage to any other property and the driver (who was alone) reported no injuries. The vehicle suffered only minor danage to the right side, as it went over into deep snow. No pictures were taken due to low light and intense cold. Ref: Spil Report No. 94-053		The diesel was re used. The glycol was taken to Arco Pad 3.	While driving onto H pad, the driver of a guzzler truck observed a 'radio silence' sign. While the driver was reaching to turn off his radio, the driver lost control and the truck went off the road, turning onto it's side causing some glycol to leak fr
11/30/96	1996-IR-89516	GC-1 Pad	Diesel	3.00	THE FUELER FOR VMS HAD JUST FINISHED FUELING SOME NON-MOBILE EQUIPMENT ON THE PAD AT GC 1. HE PULLING THE HOSE BACK TO THE FUEL TRUCK BY THE NOZZLE. THE NOZZLE CAME DISSCONNECTED FROM THE HOSE AT THE QUICK DISCONNECT FITTING. THIS WOULD HAVE BEEN ALRIGHT BUT THERE WAS A PIECE OF METAL IN THE COUPLER'S SELF CLOSING MECHANISM,CAUSING FUEL TO DISCHARGE FROM THE HOSE.		The recovered snow has been sampled to help in determining disposition. Contaminated snow was disposed of in T Pad pit after sample analysis showed no detectable limit.	While transferring fuel to heaters outside Skid 308 at GC-1, the quick connect fitting on the fuel nozzle came loose. The safety check valve, which should have cut off fluid flow, was jammed open which allowed diesel to spray around the area.
3/6/96	1996-IR-91168	Well Pad X	Crude Oil	3.00	The downhole crew was preforming chemical treatment displacements on X-Pad. During the course of normal operation, a Victolic Coupling became loose and started to leak. The leak spilled out of the secondary containment and onto the snow covered gravel pad. BPX Environmental Department was notified immediately and estimated the crude oil spill to volume at 3 gallons. The crude oil and snow was cleaned up and disposed of.		The exempt clean up material was taken to the product recovery tank at Price Pad for reprocessing at GC-1's Dirty Water Tank.	A loose fitting on the suction line inside the down hole pump unit leaked. This allowed the floor of the unit to fill wit crude oil. The valve on the floor drain of the unit leaked, causing approx. 3 gallons of crude to spill onto the Pad.
2/4/97	1997-IR-98711	Drill Site 09	Crude Oil	3.00	9 5/8 annulus pressure was being bled to slop oil trailer. A frozen sight glass on the trailer showed low level but the trailer was full. The pressure carried crude over the vent onto the holding pan unit which splashed onto the pad.	Used hand shovels to pick up contaminated snow and ice. - Contaminated snow and ice were taken to Pad 3 East Pit on 2/5/97 to be held for future melting and injection.		9 5/8 annulus pressure was being bled to slop oil trailer. A frozen sight glass on the trailer showed low level but the trailer was full. The pressure carried crude over the vent onto the holding pan unit which splashed onto the pad.
7/20/97	1997-IR-89469	Well Pad S	Methanol	3.00	A Schlumberger and HB&R crew were rigged up to S-26 in preparation to install a zone isolation plug. While the HB&R crew was pumping seawater downhole, the pack off at the top of the lubricator lost its seal resulting in approximately 12 gallons of seawater and 3 gallons of methanol being spilled onto the gravel pad. Prior to beginning the job the lubricator was successfully pressure tested to 2000 psig under static conditions. At the time of the incident, HB&R was pumping at a rate of 1 to 2 bpm with a pressure of less than 700 psig. The cause of the seal failure at the pack off was due to a larger gauge wire (0.46" wire) that was being utilized to accommodate the longer and heavier tool string that was required for this particular job. Just prior to the seal failure, the Schlumberger crew noticed an increase of 2000 psig, however the HB&R pump pressure never exceeded 700 psig. The Schlumberger crew suspected an electrical error but was unable to communicate with the HB&R crew because of incompatible radios. When the spill was discovered, the HB&R pumps were shut down, bleed hoses were rigged up to a bleed tank and Schlumberger increased the grease pressure to the pack off. The pack off seal still failed to hold pressure so the tool was taken out of the well bore and the well was shut in. This job has been suspended until further modifications can be made to ensure the lubricator integrity can be maintained.		Exempt material was delivered to ARCO Pad 3.	While working on S-26, the crew had placed the plug for well work downhole and were pumping seawater behind methanol. It appears pump pressure rose causing fluid to blow back and allow fluid to release through the well free cap.
5/23/97	1997-IR-98683	U-21 (EOA Building)	Diesel	3.00	"Material released from a leak on a triplex pump and was contained in the containment liner under the pump. While transporting pump, a small amount of the fluid spilled out of the containment liner onto the gravel pad."	"A loader, rake and buckets were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 5/28/97 to be held for future remediation."		"Material released from a leak on a triplex pump and was contained in the containment liner under the pump. While transporting pump, a small amount of the fluid spilled out of the containment liner onto the gravel pad."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/1/97	1997-IR-100846	Lisburne Production Center	Produced Water	3.00	"While sandblasting, water draws were blocked in but the accumulators continued to dump causing water to accumulate in the sand bin enclosure. When the sand bin was opened, produced water spilled onto the gravel pad."	A guzzler was used to pick up the contaminated grave and placed into the nearby sandbin on 8/1/97. - The waste was sent to DS16 temporary storage pit with sand bin returns from LPC on 8/7/97 where the waste will be disposed at a later date.		"While sandblasting, water draws were blocked in but the accumulators continued to dump causing water to accumulate in the sand bin enclosure. When the sand bin was opened, produced water spilled onto the gravel pad."
7/16/98	1998-IR-89901	Well Pad J	Crude Oil	3.00	Workers cleaning inside of Skid J-52 inadventantly dumped wash water down the deluge system drain, causing approximately 5 gallons of a crude oil/glycol/water mixture to be released under the skid to the gravel pad.		Non-hazardous material taken to Pad 3 for disposal.	Workers cleaning inside of skid J-52 inadvertantly dumped wash water down the deluge system drain, causing approximately 5 gallons of a crude oil/glycol/water mixture to be released under the skid to the gravel pad.
6/2/98	1998-IR-100664		Crude Oil	3.00	"During construction project, flowlines were removed and stored on pad with absorbs inside and oily waste bags tied at the end. Due to snow melting, the line lowered on one end causing material to leak onto pad."	Used bobcat and dump truck to remove contaminated gravel. - Contaminated gravel brought to Pad 3 West Pit on 6/3/98 for future remediation.		"During construction project, flowlines were removed and stored on pad with absorbs inside and oily waste bags tied at the end. Due to snow melting, the line lowered on one end causing material to leak onto pad."
5/23/97	1997-IR-89084	Well Pad P	Diesel	3.00	A diesel spill of approximately 3 gallons was discovered next to the Doyon 9 Mechanic Shop on P Pad. The source was a Tioga heater that was sitting at the site, but was removed before the spill was discovered.		The recovered gravel was sampled and determined not to be hazardous and was sent to Pad 3 for thermal remediation at a later time.	A diesel spill of approximately 3 gallons was discovered next to the Doyon 9 Mechanic Shop on P Pad. The suspected source is a heater that was sitting at the site but was removed before the spill was discovered.
5/15/97	1997-IR-98681	Well Pad, Roads	Diesel	3.00	"While moving a generator trailer in the south hangar parking lot, the spotter noticed liquid sloshing from an uncapped tank pipe. The liquid was diesel that was not fully drained from the tank of the trailer."	Used sorbents to pick up free standing liquid. Used hand shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 5/16/97 to be held for future remediation. Sorbents were disposed of in the NSB oily waste dumpster.		"While moving a generator trailer in the south hangar parking lot, the spotter noticed liquid sloshing from an uncapped tank pipe. The liquid was diesel that was not fully drained from the tank of the trailer."
1/13/96	1996-IR-91130	Well Pad S	Seawater	3.00	A Peak Vac truck was getting ready to offload filtered seawater into a horizontal tank at Rig 28E. The driver pressured up to offload and opened the vac unit. He then walked the tank and lines to check for leaks. The driver found the sight glass tube on the front of the vac unit was leaking. The bottom hose of the sight glass tube had come loose and fluid was spilling out. The hoses are held in place with automotive radiator type clamps. Approx. 3 gallons of filtered seawater spilled onto the ground. All the contaminated snow/ice was picked up and placed in a bucket, melted and injected at the rig.		The material was melted and used for its original purpose, injection.	A site glass on a vac unit of a Peak truck had a leak in it causing the seawater to spill onto the ground. This was discovered when a vac truck driver was preparing to off load seawater into a horizontal tank.
5/6/96	1996-IR-90998	Well Pad Y	Crude Oil	3.00	Well Y-1 was being safed out with a double block and bleed for a shutdown. The block and bleed leaked, allowing approximately 3 gallons of crude to drip down the tree in the well house and into the cellar.		The used sorbents were bagged and placed in the oily waste dumpster for incineration at the NSB.	Well Y-1 was being safed out with a double block and bleed for a shutdown. The block and bleed leaked, allowing approximately 3 gallons of crude to drip down the tree in the well house and into the cellar.
6/17/98	1998-IR-98747	Drill Site 15	Crude Oil	3.00	Crude dripped from a flange on the Artificial Lift Distribution Header onto the gravel pad. The flange was tight when checked after the leak was discovered suggesting the ring might be slightly damaged.	Used a bobcat and dump box to scrape up contaminiated gravel. - Contaminated gravel was removed with a bobcat and dump box and taken to Pad 3 West Pit on 6/22/98.		Crude dripped from a flange on the Artificial Lift Distribution Header onto the gravel pad. The flange was tight when checked after the leak was discovered suggesting the ring might be slightly damaged.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/25/93	1993-IR-86555	Well Pad M	Lube Oil	3.00	Pressure relief valve froze on a compressor causing the oil in it to be vented out of the pop-off valve. The built-in catch pan system on the compressor did not adequately contain the oil released. Sorbents were used to soak up the standing fluid. Contaminated snow and ice were scraped up with a 966 loader. All contaminated materials were loaded into a dump truck for removal from the site. Contaminated snow and ice were taken to A3W2. Sorbents were placed in the BOC oily waste dumpster. The compressor was taken to VMS and thawed. The manufacturer was contacted for information about possible modifications to the unit.		Contaminated snow and ice were taken to A3W2. Sorbents were placed in the BOC oily waste dumpster.	Pressure-relief valve froze on a compressor, causing compressor oil to be vented out of the pop-off valve. The built-in catch pan system on the compressor did not adequately to contain the oil released.
11/14/97	1997-IR-98634	Drill Site 02	Crude Oil	3.00	"During Rig down of a coiled tubing unit, the packer ground coil leaked oil and injector sump froze. The oil pooled on the top of wellhouse roof and leaked down two sides onto the snow covered pad."	Used absorbants and loader and hand shovels to scrape up contaminated snow and gravel. Product was taken to DS16 temporary storage. Oily waste bags placed in the oily waste dumpster. SRT cleaned roof and sides of wellhouse. - Contaminated snow and gr		"During Rig down of a coiled tubing unit, the packer ground coil leaked oil and injector sump froze. The oil pooled on the top of wellhouse roof and leaked down two sides onto the snow covered pad."
3/11/96	1996-IR-98323	Flow Station 3	Produced Water	3.00	"While draining a 4""""" bypass to floor sump, the sump alarm failed to sound when the the sump overfilled. Water ran into module and 3 gallons leaked outside the module onto the gravel pad."	Handshovels were used to remove the contaminated snow. - The spilled material was placed back into the floor sump.		"While draining a 4""""" bypass to floor sump, the sump alarm failed to sound when the the sump overfilled. Water ran into module and 3 gallons leaked outside the module onto the gravel pad."
10/10/94	1994-IR-86358	Price Pad	Methanol	3.00	At approximately 1330 hours the Chemical Foreman was notified that there was a small amount of methanol on the ground, at Price Pad, outside the methanol storage tank containment dike. The Chemical Foreman contacted everyone who may have transferred methanol from the storage area in the last 24 hours and none of the parties knew of any operations requiring methanol and had transferred no methanol from this storage area.		A 966 loader hauled the contaminated snow to a melter tank in A3W2. It will be melted and the fluids will be reused for freeze protection.	While doing an inspection of the tank storage area on Contractors Pad , the Chemical Tech discovered a discoloration in the snow. This was determined to be small spill of methanol.
4/8/95	1995-IR-86983	Well Pad A	Diesel	3.00	During wellwork operations, diesel was being circulated from the annulus to a tiger tank. There were several walkarounds during the job and no leaks were observed. Following the job, the inspection plate gasket on the tank developed a leak. Diesel leaked from the tiger tank onto the gravel pad. The plate was tightened and the leak stopped. A vac truck emptied the tank and the tank was moved to Price Pad. The contaminated snow and gravel was removed and the site cleaned. This tank was used during the GC-1 turnaround. The tank was then cleaned by Peak before returning to service. A spill review board meeting was held on 4/9/95.		The exempt material was taken to T pad pit.	A gasket on the side inspection plate on a tiger tank leaked causing approximately 3 gallons of diesel to spill onto the pad. The tiger tank was supporting well work on Well A-5.
12/4/96	1996-IR-89662	Well Pad C	Lube Oil	3.00	EQUIPMENT SERVICES WAS DOING ROUTINE SNOW REMOVAL ON C PAD WITH A BLADE AND A BLOWER. THE BLADE WAS JUST ABOUT TO THE END OF HIS PASS WHEN THE BLOWER HAND TOLD HIM HE WAS LEAKING OIL. HE STOPPED THE BLADE AND THE ENGINE QUIT. AFTER AN INSPECTION FROM A MECHANIC HE FOUND A CRACK IN THE OIL COOLER ON THE ENGINE BLOCK.		The contaminated snow was hauled to pad 3 for disposal.	A catastrophic engine failure on a grader occurred while plowing snow. The engine block cracked which allowed engine lube oil to discharge to the surface of C Pad.
5/21/93	1993-IR-86737	CPS	Diesel	3.00	Tractor # 42027 developed a leak on a pre-existing crack that had once been patched on the fuel tank. This crack allowed fuel to leak from the fuel tank. The diesel was cleaned up with hand tools and the 966 loader. The contaminated gravel was put into the snow melter at A3W2. Contaminated gravel was washed and then transported to Arco Pad 3.		The contaminated gravel was put into the snow melter at A3/W2. Contaminated gravel will be washed and then transported to Arco Pad 3.	Tractor #42027 developed a leak on a preexisting crack that had once been patched on the fuel tank. This crack allowed fuel to leak from the fuel tank.
11/2/94	1994-IR-85890	Well Pad X	Crude Oil	3.00	All of X-Pad was shut down during the GC-3 turnaround. The flange between the S riser and flowline on X-17 developed a leak at the flange gasket. This allowed crude to leak out the flange through the insulation. The flange gasket has been inspected and the flange has been tightened. The contaminated snow was removed.		The contaminated snow was taken to Santa Fe Pad and placed into storage bins awaiting transportation to Pad 3 for disposal. Oily sorbants were taken to NSB oily waste dumpster for disposal.	The flange between the S riser and flow line developed a leak at the flange gasket. This allowed crude to leak out the flange, through the insulation.
6/15/94	1994-IR-88594	Well Pad N	Crude Oil	3.00	Checking the piping behind the Skid, operator noticed oil. Removed insulation and found evidence of a small flange leak, but no oil was leaking at the time. Insulation can for flanges held leaking oil until overflow, then oil was noticed on outside of insulation. Depressured the flowline on Nancy 10 and tightened the flange bolts. No production loss due to this well being shut in at the time.		Taken to Santa Fe Hoppers for removal to Pad 3.	During winter operations the N-10 flowline surged and broke the flange loose on the well side of the bypass valve and where it ties into the Module.
3/6/96	1996-IR-90811	Drill Site 09	Crude Oil	3.00	During a well kill operation on Well #9-01, approximately 3 gallons of crude escaped out the top of the gas buster and sprayed into the reserve pit.	Hand tools were used to clean up the contaminated snow.	The exempt clean up material was placed in the Rig's slop tank to be melted and reprocessed.	During a well kill operation on Well #9-01, approximately 3 gallons of crude escaped out the top of the gas buster and sprayed into the reserve pit.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/5/93	1993-IR-86720	Well Pad F	Methanol	3.00	The source of the spill is unknown. Material discovered in area of fluid transfers to and from a bulk storage tank. Improper transfer procedures assumed to be the cause. The area was scraped with a bucket loader and hand tools. All contaminated snow was taken to the A3W2 snow melter.		Contaminated snow was taken to the A3W2 snowmelter.	Unknown. Material discovered in area of fluid transfers to and from a bulk storage tank. Improper transfer procedures assumed to be the cause.
5/1/97	1997-IR-89254	Well Pad Z	Lube Oil	3.00	An area of approximately 10' x 15' behind well 32 on Z Pad was discovered to be contaminated with lube oil. the cause and source are under investigation. Affected snow and gravel have been scraped up with loader and hand tools w/non-hazardous material taken to Arco Pad 3. All contaminants were contained on the pad; no tundra or water was affected. This spill was discovered approx. four days after a drilling rig moved off the well and the well tie-in work was completed. The well house had also been put back in place. A wireline crew first noticed the discoloration of soil and reported it to Pad Operator. The Co. Rep. and the Pad Operator did not complete a Post-Pad Inspection of the well area.		Non-hazardous materials will be taken to ARCO Pad 3.	An area of approx. 10' x 15' behind well 32 on Z Pad was discovered to be contaminated with lube oil. The cause and source are are unknown.
12/13/92	1992-IR-86641	GC-1 Pad	Lube Oil	3.00	A parked and idling 966 C bucket loader blew a rod resulting in a hole in the block spilling 3 gallons of lube oil on the pad. Hand tools were used to scrape up the contaminated material and place it into plastic bags and the material was taken to A3W2 for thawing and recycling.		Material was taken to the snow melter at A3/W2 for thawing and recycling.	A parked and idling 966 C bucket loader blew a rod resulting a hole in the block which allowed 3 gallons of lube oil to vent onto the pad.
6/10/98	1998-IR-90014	Well Pad G	Crude Oil	3.00	Lateral valve body failure caused approx. 3 gallons to leak through the insulation blanket onto the snow and ice on the gravel pad. Hand tools and portable Vac unit were used to clean affected snow and ice on the gravel pad. Class 2 material will be taken to GC-1 and put in dirty water tank.		RCRA-exempt Class 2 material was taken to GC-1 and put in dirty water tank.	Lateral valve body failure caused approximately 3 gallons to leak through the insulation blanket onto the snow and ice on the gravel pad.
2/7/94	1994-IR-88573	Well Pad D	Crude Oil	3.00	WHILE PUMPING DEAD CRUDE INTO INNER ANNULUS ON D-19 FOR PRESSURE TEST WITH PUMP TRUCK, CRUDE LEAKED BY VALVE INTO HOLDING TANK WHICH OVER FLOWED AND VENTED TO PAD SPILLING 3 GALS. OF FLUID.		Contaminated snow taken to Pad 3 for disposal. Sorbents placed in oily sorbent dumpster for incineration at North Slope Borough incinerator.	While pumping dead crude into inner annulus with pump truck, crude leaked by valve into holding tank which overflowed and vented to pad.
4/29/95	1995-IR-98487	Drill Site Maintenance	Diesel	3.00	"While fueling equipment at DSM yard, a connection at the fuel nozzle split apart causing fuel to spill on to snow covered gravel pad."	A supersucker was used to remove the contaminated snow. - The contaminated snow will be melted and reused in downhole well work.		"While fueling equipment at DSM yard, a connection at the fuel nozzle split apart causing fuel to spill on to snow covered gravel pad."
12/31/92	1992-IR-86644	Well Pad Z	Crude Oil	3.00	Mechanical failure of an air actuated valve caused back flow which in turn caused oil to vent from a tank spraying crude across the pad. The contaminated snow was scraped up with a bucket loader then loaded into a dump truck for removal from the site to T-Pad. The valve was replaced.		The contaminated snow was taken to T-pad for summer oil recovery.	Mechanical failure of an air actuated valve caused backflow which in turn caused oil to vent from a tank spraying crude across the pad.
6/16/99	1999-IR-98804	Drill Site 15	Produced Water	3.00	The cause of the spill is unknown at this time. The spill occurred inside the wellhouse on the gravel pad and inside the well cellar.	6/21/99 - SRT used super sucker to remove gravel after wellhouse was removed. 6 cu. yds total of gravel was taken to DS4 temp storage.		The cause of the spill is unknown at this time. The spill occurred inside the wellhouse on the gravel pad and inside the well cellar.
6/24/99	1999-IR-98806	Drill Site 06	Diesel	3.00	A heater was being used to thaw flowline & equipment. The injector line split on Tioga heater leaking fuel out through an open door.	SRT used bobcat & dump box to clean up gravel.		A heater was being used to thaw flowline & equipment. The injector line split on Tioga heater leaking fuel out through an open door.
1/12/93	1993-IR-87173	Well Pad W	Lube Oil	3.00	Engine oil leak developed in generator next to module filling floor of generator skid and leaking out on to pad through floor seams. Sorbents were used to soak up the pooled oil. A pit liner was placed under neath the generator skid to contain leaks. Used sorbents were taken to dumpster for disposal at NSB incinerator. The maintenance crew repaired the generator.		Used sorbents taken to dumpster for disposal at N.S.B. incinerator.	Engine oil leak developed in generator next to module, filling floor of generator skid and leaking out onto pad through floor seams.
4/3/94	1994-IR-98476	Drill Site 03	Crude Oil	3.00	Operator blew air through hose into a trailer that was too full and caused fluid to blow out vent pipe & overflow containment pan.	Metis/Cleanup		Operator blew air through hose into a trailer that was too full and caused fluid to blow out vent pipe & overflow containment pan.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/2/98	1998-IR-90366	Well Pad B	Crude Oil	3.00	At 09:40am State test crew called operator saying well house full of gas. Operator called grease cew and told them of problem at B-7. 09:48: Operator arrived at B-7, meeting with State test crew, seeing wellhouse full of gas. 09:49: Heading for Sk 52, called PCC and told them I was remotely shut-in B-7 that the wellhouse was full of gas. 9:50: Tripped SSV for B-7 at Sk 52 and went to Sk 57. 09:55: Called PCC to put B-7 to Low pressure taking pressure from 1000# to 250 psi, closing manual block above choke and lining up well to Shop oil tank. Pressure down to 125#. 10:00: Went back to well, meeting with grease crew. Saw that the stem seal on the wing valve was leaking. Grease crew going back to shop for parts. Operator called SPOC and asked him to report to supervisor and Enviro of the problem and oil spill in wellhouse. 10:10: Went back to Sk 57 to finish depressuring B-7 flowlines and safe-out for grease crew to repair. 11:00: Enviro there and put down absorbent and ordered super-sucker truck for clean-up. 11:10: Grease crew started repairs. 11:30: Grease crew finished repairs and Enviro started clean-up. 13:30: Enviro finished clean-up. Operator pressure tested wing to 2600# psi. 14:00: Operator called PCC and POP well.		Sorbents were bagged and placed in an oily waste dumpster for incineration. Exempt gravel was taken to Pad 3 for disposal.	A seal failed on the wing valve for Well B-7 spraying approximately 3 gallons of crude to spray inside the well house and cellar.
11/1/99	1999-IR-98343	Pipeline Right-of-Way	Diesel	3.00	Snow blower traveling on pipeline road and fell in road washout from Vern Lake. Leaked diesel from fuel cap into Vern Lake	SRT responded immediately. A loader was utilized to clean up the area where the machine was pulled back onto the road and sorbents were used to collect diesel in the water. Water was allowed to freeze solid. Timmer trimmed area. Ice & snow was taken		Snow blower traveling on pipeline road and fell in road washout from Vern Lake. Leaked diesel from fuel cap into Vern Lake
7/2/99	1999-IR-98808	COTU Facility	Crude Oil	3.00	This could have occurred from a Bottoms pump leak and resid leaked thru cracks in the floor. All drains have been plugged.	SRT cleaned up with vac truck.		This could have occurred from a Bottoms pump leak and resid leaked thru cracks in the floor. All drains have been plugged.
6/25/96	1996-IR-98285	Drill Site 03	Diesel	3.00	Gasket on fuel filter housing failed causing diesel to spray onto gravel pad and produced sheen on water in impoundment.	Used sorbent products to remove diesel from pad and impoundment. Used shovels and Bobcat to pick up contaminated gravel. - Disposed of contaminated gravel at Pad 3 West Pit on 6/25/96.		Gasket on fuel filter housing failed causing diesel to spray onto gravel pad and produced sheen on water in impoundment.
2/27/92	1992-IR-87249	Well Pad W	Crude Oil	3.00	Vac truck driver connected hose to wrong fitting causing crude oil to blow out from the top of the holding tank onto the pad. The contaminated snow was scraped up with shovels and taken to T-Pad disposal pit. The crew was cautioned to check all fittings before beginning fluid transfers.		Contaminated snow taken to T-pad disposal pit.	Vac truck driver connected hose to wrong fitting causing crude oil to blow out from top of holding tank onto pad.
1/7/94	1994-IR-98150	MCC Fuel Dock	Diesel	3.00	Exact cause is unknown. The spilled material was discovered on the snow covered gravel pad at the fuel dock.	The contaminated snow was removed with handshovels. Absorbents were used to soak up the excess fluid. - The absorbents were disposed of at the NSB incinerator. The contaminated snow was placed in the dedicated snow dumpster at the fuel island for futu		Exact cause is unknown. The spilled material was discovered on the snow covered gravel pad at the fuel dock.
1/23/97	1997-IR-89745	Well Pad F	Diesel	3.00	There was a diesel fuel leak on a light plant that was staged at F-43. The spill was the result of a faulty O-ring on the fuel filter. Diesel fuel leaked into the belly pan of the light plant and onto the pad. The environmental department was notified and the spill was cleaned up.		The gravel was non-hazardous gravel was taken to ARCO Pad 3 for incineration at a later time. The affected snow was melted and the fluids were reused for freeze protection activities.	Light plant staged at F-43 had faulty O-ring on fuel filter. Diesel fuel leaked into belly pan and onto pad.
10/16/97	1997-IR-90450	Well Pad C	Crude Oil	3.00	On 10-16-97, about 0430 hrs, C-12 wellhouse check valve developed a leak on the check-valve, spraying about three gallons of oil into the well house. During routine pad inspection, the pad operator saw mist coming from the well house. He safed out C-12 and twinned well C-11 to stop the leak. The internals of C-12 and C-11 were removed and a 1/2" plug was fitted in the check valve . Note: An MoC has been initiated to remove well house check valve internals on all wells in WOA.		The affected gravel is RCRA exempt and was taken to Arco pad 3.	A check valve on well C-12 failed causing approximately 3 gallons of crude oil to spray inside the wellhouse.
2/9/93	1993-IR-86647	Well Pad S	Methanol	3.00	A leaking flange on one of the S-risers on the flowline entering S-57 caused methanol to leak under the skid. Shovels were used to pick up the contaminated snow and gravel which was placed in plastic bags for removal to A3W2.		Material taken to A3W2 for melting and recycling.	A leaking flange on one of the S-risers on the flowline entering S-57 caused methanol to leak under the skid.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/11/94	1994-IR-98155	Drill Site 04	Seawater	3.00	Leaked from receiver atmospheric vent on seawater injection line because the valve was not closed tightly.	A loader was used to remove the contaminated snow and ice. Cleanup is 100% complete. - The contaminated snow was taken to the Pad 3 snowmelt pit on 4/16/94 to be held for future injection at the WIF.		Leaked from receiver atmospheric vent on seawater injection line because the valve was not closed tightly.
6/4/99	1999-IR-98801	Flow Station 3	Fresh Water	3.00	Sight glass on heat trace to STV (stock tank vapor) sump developed a drip in the 4929 flare sump module.	FS3 personnel vacuumed up material and pumped into the sump module to the facility slop tank.	FS3 sump module to the facility slop tank	Sight glass on heat trace to STV (stock tank vapor) sump developed a drip in the 4929 flare sump module.
7/4/94	1994-IR-98225	PBOC	Diesel	3.00	"A rock kicked up by another vehicle hit the fuel tank of a van, causing fuel to leak from the tank."	A bobcat was used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 7/5/94 to be held for future remdiation.		"A rock kicked up by another vehicle hit the fuel tank of a van, causing fuel to leak from the tank."
4/12/96	1996-IR-98594	MCC Fuel Dock	Diesel	3.00	"Fuel nozzle fell out of tank while fueling vehicle, causing diesel to release onto to gravel pad."	Handshovels were used to remove the contaminated snow. Absorbs were used to soak up excess fluids. - The contaminated snow was placed in a designated dumpster at the MCC Fuel Dock to be melted and reused as freeze protect. Absorbs were disposed of at		"Fuel nozzle fell out of tank while fueling vehicle, causing diesel to release onto to gravel pad."
5/3/92	1992-IR-87214	BOC Pad	Diesel	3.00	Fuel line from gas tank on crew change bus separated allowing gasoline to spill onto snow on pad. The contaminated snow was scraped up with a bucket loader. Contaminated snow was taken to A3W2 melt tank. The hose was repaired.		Contaminated snow taken to A3W2 melt tank.	Fuel line from gas tank on crew change bus separated, allowing gasoline to spill onto snow on pad.
7/3/92	1992-IR-86920	BOC Pad	Diesel	3.00	The fuel line from the gas tank on the crew change bus separated allowing gasoline to spill onto snow on the pad. The contaminated snow was scraped up with a bucket loader and taken to A3W2 melt tank. The hose was repaired.		Contaminated snow taken to A3W2 melt tank.	Fuel line from gas tank on crew change bus separated, allowing gasoline to spill onto snow on pad.
1/20/96	1996-IR-100646	Point MacIntyre	Seawater	3.00	PSV or bypass valve from pig receiver leaked allowing water to drip out of relief line onto pad.	Handshovels were used to remove the contaminated snow and ice. - The contaminated snow and ice were placed in slop oil trailer and will be recycled at Flow Station 1.		PSV or bypass valve from pig receiver leaked allowing water to drip out of relief line onto pad.
1/7/94	1994-IR-98151	Seawater Injection Plant	Seawater	3.00	"During a pigging operation, door was opened on launcher before the launcher was fully drained."	Handshovels were used to remove the contaminated snow. Cleanup is 100% complete. - The contaminated snow was melted and reused on 1/7/94.		"During a pigging operation, door was opened on launcher before the launcher was fully drained."
2/9/95	1995-IR-98559	Drill Site 05	Diesel	3.00	Diesel was observed in snow on gravel pad following adjacent wellwork. Exact cause is unknown.	Loader and rake were used to pick up contaminated snow. - Contaminated snow was removed from site by dump truck. It will be melted and re-used by Well Support.		Diesel was observed in snow on gravel pad following adjacent wellwork. Exact cause is unknown.
4/15/94	1994-IR-98161	Drill Site 18	Crude Oil	3.00	Hose connection to sump vessel failed while pumping down manifold piping with sandpiper pump.	Handshovels were used to remove the contaminated snow. Cleanup is 100% complete. - The contaminated snow was taken to the Pad 3 snowmelt pit on 4/16/94 to be held for future injection at the WIF.		Hose connection to sump vessel failed while pumping down manifold piping with sandpiper pump.
4/30/92	1992-IR-97704	MCC Fuel Dock	Diesel	3.00	Fuel nozzle slipped out of the truck's fuel tank and did not trip off when it hit the ground.	Metis/Cleanup		Fuel nozzle slipped out of the truck's fuel tank and did not trip off when it hit the ground.
12/3/93	1993-IR-98074	Drill Site 04	Methanol	3.00	Well bore pressure leaked back through closed needle valve and check valve on triplex pump.	Metis/Cleanup		Well bore pressure leaked back through closed needle valve and check valve on triplex pump.
2/28/92	1992-IR-87250	Well Pad U	Seawater	3.00	The operator opened the bleed valve on the lubricator too much causing seawater to spray from the bleed tank. The contaminated material was cleaned up, put in bags and put in NSB dumpster. Proper bleed down procedures were discussed with crews.		Material was put into bags and put it NSB dumpster.	Operator opened bleed valve on lubricator too much, causing water to spray from bleed tank.
9/13/92	1992-IR-97788	Drill Site 04	Methanol	3.00	"While disconnecting pressure gauge, valve was left open causing material to spray out."	Metis/Cleanup		"While disconnecting pressure gauge, valve was left open causing material to spray out."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/12/00	2000-IR-98855	COTU Facility	Crude Oil	3.00	Residual crude spilled due to a leaking flange on the flare KO pump discharge line.	SRT removed contaminated snow and crude resting on the piping/piping supports with sorbents. Fluid in area was picked up with pump and pumped into barrels.	3 bbls sent to FS1 for recycle.	Residual crude spilled due to a leaking flange on the flare KO pump discharge line.
11/2/92	1992-IR-87519	WSW	Seawater	3.00	Driver was loading seawater from the loading station at WSW and overfilled tank causing the vent to spill approximately 3 gallons of seawater onto the pad.		All contaminants placed in loading sump for melting and disposal.	Vac truck operator overfilled tank on vac truck, causing seawater to vent onto pad.
6/23/92	1992-IR-97714	Drill Site 13	Diesel	3.00	"During a frac job on the hardline, a pressure kick caused material to spray out."	Metis/Cleanup		"During a frac job on the hardline, a pressure kick caused material to spray out."
4/13/99	1999-IR-93758	Well Pad D	Methanol	3.00	Approximately 10 gallons of methanol leaked from a drylock fitting connected to the HB&R unit supporting coil tubing work on well D-20. After inspection of the hose, valve and adapter combination used, it was determined that the weight of the drylock caused the valve seat to become loose on one side. This allowed a small amount of fluid to leak from the valve where it was connected to an adapter (drylock to camlock). The fluid then flowed down the underside of the hose to the ground. Once reaching the ground, the fluid migrated under the spill containment pit and was not noticed for a period of time. Spill containment pits were in place under all valves and a spill champion made regular inspections during the job. The leak was not spotted because of its position.		Contaminated snow was bagged up and was melted in drums and reused for freeze protection.	Spill pictures are on file in Lead Spill Tech's office. This is the final report.
5/28/93	1993-IR-97939	Drill Site 07	Diesel	3.00	Air compressor was parked at an angle allowing the fuel to drain out of the vent.	Metis/Cleanup		Air compressor was parked at an angle allowing the fuel to drain out of the vent.
1/18/98	1998-IR-90390	GC-1 Pad	MEG	3.00	Deluge drain spilled MEG outside of the skid during high winds. The MEG is used as a trap to keep air out of the skid. High wind causes a siphon effect which pulled MEG out of the trap.	Contaminated snow and MEG was cleaned up using hand shovels.	Water/MEG to be utilized for freeze protection.	High winds caused venturi effect releasing 3 gallons of MEG from firewater drain.
3/16/94	1994-IR-86565	Santa Fe Pad	MEG	3.00	It is suspected a radiator hose from a line hauler broke while driving across the pad. The spill was discovered by a contract worker when he arrived at work. Contaminants were cleaned up and taken to Arco Pad 3 West Pit.		The contaminted material was taken to Arco Pad 3 West Pit.	Suspected broken radiator hose from a line hauler while driving across the pad.
6/11/94	1994-IR-98212	Drill Site 01	Diesel	3.00	Swivel connection failed during fluid transfer operation due to metal fatigue.	Absorbents were used to remove the contaminated material. - The absorbents were placed in the dedicated Oily Waste dumpster for future incineration at the NSB.		Swivel connection failed during fluid transfer operation due to metal fatigue.
1/6/93	1993-IR-97891	Central Compressor Plant	Lube Oil	3.00	Oil seal blew out of demister bypass line due to high pressure on demister.	Metis/Cleanup		Oil seal blew out of demister bypass line due to high pressure on demister.
6/4/96	1996-IR-98607	COTU Facility	Diesel	3.00	"Fuel line on air compressor failed, causing diesel to spill onto gravel."	Used absorbent pads to clean up diesel and loader to pick up contaminated gravel. - Disposed of at Pad 3 Solid West Pit on 6/4/96 for future remediation.		"Fuel line on air compressor failed, causing diesel to spill onto gravel."
12/5/94	1994-IR-98424	Main Construction Camp (MCC)	Diesel	3.00	Diesel spill from an unknown source was discovered during snow plowing.	SRT used scratcher and bucket to pick up contaminated snow and gravel. - Contaminated snow and gravel were loaded into a dump truck and taken to FS1 for melting and recycling.		Diesel spill from an unknown source was discovered during snow plowing.
11/1/90	1990-IR-97159	Drill Site 05	Methanol	3.00	"During hardline bleed down, gas behind fluid blew meth out of bucket."	YES -		"During hardline bleed down, gas behind fluid blew meth out of bucket."
5/28/94	1994-IR-98198	Flow Station 1	Diesel	3.00	Material released from cracked weld around filler neck on diesel tank.	A bobcat was used to cleanup up the contaminated gravel. Absorbents were used to soak up the excess fluids. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 5/29/94 to be held for future remediation. The absorbents were disposed of at		Material released from cracked weld around filler neck on diesel tank.
10/29/99	1999-IR-98342	Drill Site 15	Methanol	3.00	Leaky valve on sump allowed material to leak onto snow packed gravel.	Scrapped up spilled material with loader bucket and placed into cutting tank (class 2 exempt material).		Leaky valve on sump allowed material to leak onto snow packed gravel.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/27/92	1992-IR-97367	Drill Site 15	Crude Oil	3.00	Residue crude left in lubricator sprayed out during depressurization.	Metis/Cleanup		Residue crude left in lubricator sprayed out during depressurization.
7/6/93	1993-IR-97996	G&I Facility	Diesel	3.00	Didnt close valve on diesel tank. Overfilled secondary containment.	Metis/Cleanup		Didnt close valve on diesel tank. Overfilled secondary containment.
5/6/91	1991-IR-97287	Drill Site 17	Crude Oil	3.00	"While flowing back a well, a mist of crude came out of tiger tank."	YES -		"While flowing back a well, a mist of crude came out of tiger tank."
2/10/90	1990-IR-96331	Well Pad, Roads	Diesel	3.00	Full tanker was moved to warm storage causing expansion and overflow	YES -		Full tanker was moved to warm storage causing expansion and overflow
3/15/93	1993-IR-86718	Well Pad S	Diesel	3.00	Diesel mist from an unknown source covered a 15' x 20' area on pad. A 966 bucket loader was used to scrape material up. Contaminated snow was melted down and injected at Pad 3 injection well.		Contaminated snow to be melted down and injected at Pad 3 injection well.	Diesel mist from an unknown source covered a 15' to 20' area on pad.
2/4/96	1996-IR-98654	Drill Site 01	Crude Oil	3.00	Crude spilled from a downcomer during reinstallation on well 1-12.	"Sorbents were used to pick up free standing crude. Ice chipper, shovels and a loader with scratcher and bucket were used to pick up contaminated snow/ice. - Sorbents were placed in oily waste bags and disposed of in NSB oily waste dumpster. Cont		Crude spilled from a downcomer during reinstallation on well 1-12.
5/21/92	1992-IR-97355	C Pad	Crude Oil	3.00	Warm weather caused expansion & frac tank leaked residual material	Metis/Cleanup		Warm weather caused expansion & frac tank leaked residual material
9/1/93	1993-IR-98029	Drill Site 17	Crude Oil	3.00	Excess pressure to vent separator during depressurization of SWI.	A bobcat and front end loader were used to remove the contaminated gravel. Clean-up is considered to be 100%. - Material was taken to Pad 3 temporary holding pit on 9/2/93 to be held for future remediation .		Excess pressure to vent separator during depressurization of SWI.
5/23/93	1993-IR-97932	Central Gas Facility	Lube Oil	3.00	Engine malfunction on crane caused it to pump out its engine oil.	Metis/Cleanup		Engine malfunction on crane caused it to pump out its engine oil.
9/11/92	1992-IR-97785	Drill Site 17	Diesel	3.00	"While bleeding down annulus, material overflowed out tank vent."	Metis/Cleanup		"While bleeding down annulus, material overflowed out tank vent."
3/6/94	1994-IR-98451	MCC Fuel Dock	Diesel	3.00	"*Automatic stop on fuel pump failed, causing tank to overflow."	The contaminated snow was scraped up with a loader and bucket. Cleanup is 100% complete. - The contaminated snow was melted and reused as freeze protect on 3/15/94.		"*Automatic stop on fuel pump failed, causing tank to overflow."
6/1/90	1990-IR-100735		Crude Oil	3.00	Wind carried dripping out of drip pan during cleaning operation.	YES -		Wind carried dripping out of drip pan during cleaning operation.
8/19/90	1990-IR-97083	Drill Site 09	Diesel	3.00	Line stripper on Schlumb unit allowed diesel from cable to drip.	YES -		Line stripper on Schlumb unit allowed diesel from cable to drip.
3/21/90	1990-IR-97256	Drill Site 16	Crude Oil	3.00	Wireline supervisor arrived at location and found spill on snow.	YES -		Wireline supervisor arrived at location and found spill on snow.
7/21/93	1993-IR-86687	Well Pad Y	Diesel	3.00	The source of the spill was unknown. Diesel was found by an environmental technician during pad inspection. Contaminated gravel was cleaned up with shovels and taken to Arco Pad 3 for disposal.		Contaminated gravel was non-hazardous and was taken to ARCO Pad 3 for disposal.	Unknown. Diesel found by Environmental Tech. on Pad Inspection.
8/14/99	1999-IR-98821	Seawater Injection Plant	Seawater	3.00	Seawater leaked into swimming pool liner that had a hole in it.	8/14/99 - The remaining seawater in the swimming pool was sucked out and back into the tank of the vac truck. The seawater that came incontact with the gravel was removed by Peak and will be used for thermal remediation.	The gravel will be thermally remediated for future use.	Seawater leaked into swimming pool liner that had a hole in it.
5/24/93	1993-IR-97933	Drill Site 05	Crude Oil	3.00	Hardline connection broke apart spilling material onto the pad.	Metis/Cleanup		Hardline connection broke apart spilling material onto the pad.
5/25/92	1992-IR-97358	Drill Site 12	Crude Oil	3.00	Surge of pressure caused material to vent out of slop oil tank.	Metis/Cleanup		Surge of pressure caused material to vent out of slop oil tank.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/4/94	1994-IR-98182	Drill Site 03	Crude Oil	3.00	An O-ring on a lubricator failed during a wireline operation.	A loader and bucket were used to clean up the contaminated snow. - The contaminated snow was taken to Pad 3 snowmelt pit on 5/5/94 to be held for future injection at the WIF.		An O-ring on a lubricator failed during a wireline operation.
5/9/92	1992-IR-97342	Drill Site 03	Lube Oil	3.00	Source and cause unknown. Sighted on pad during spring thaw.	Metis/Cleanup		Source and cause unknown. Sighted on pad during spring thaw.
7/10/99	1999-IR-98812	Drill Site 02	Fresh Water	3.00	Mechanical failure. The tubing on a coil tubing unit parted.	Security and ACS were contacted to clean up location. A bobcat and end dump were used for clean up and transport to pad 3.		Mechanical failure. The tubing on a coil tubing unit parted.
1/3/90	1990-IR-96953	Drill Site 02	Diesel	3.00	Sprayed from tree valve on well when bleeding down pressure.	YES -		Sprayed from tree valve on well when bleeding down pressure.
9/12/92	1992-IR-97786	Checkpoint - Central	Methanol	3.00	Valve on mobile tank worked its way open while being moved.	Metis/Cleanup		Valve on mobile tank worked its way open while being moved.
6/15/90	1990-IR-97022	Drill Site 05	Crude Oil	3.00	Loose grease injection port began leaking during servicing.	YES -		Loose grease injection port began leaking during servicing.
7/22/90	1990-IR-100738		Diesel	3.00	Sight glass on fuel tank ruptured leaking diesel onto pad.	YES -		Sight glass on fuel tank ruptured leaking diesel onto pad.
5/2/93	1993-IR-97912	Drill Site 09	Seawater	3.00	Fluid from fill clean out leaked from crack in tank wall.	Metis/Cleanup		Fluid from fill clean out leaked from crack in tank wall.
5/5/90	1990-IR-96902	Drill Site 11	Diesel	3.00	Slop tank overflowed during pressure bleed off operation.	YES -		Slop tank overflowed during pressure bleed off operation.
2/9/94	1994-IR-86578	Well Pad S	Diesel	3.00	The seal below the fuel cap was broken on the Challenger. The spill was cleaned up and contaminated material was taken to Arco Pad 3.		Contaminated material was taken to Arco Pad 3.	The seal below the fuel cap was broken on the Challenger.
11/27/99	1999-IR-98831	PBOC	Lube Oil	3.00	Engine oil leaked from drain plug while vehicle parked.	SRT shoveled contaminated snow into bags.		Engine oil leaked from drain plug while vehicle parked.
4/20/93	1993-IR-97900	Drill Site 14	Methanol	3.00	Overpressured relief valve causing it to dump material.	Metis/Cleanup		Overpressured relief valve causing it to dump material.
8/2/92	1992-IR-97372	Main Construction Camp (MCC)	Diesel	3.00	Broken mounting strap on fuel tank on a flatbed truck.	Metis/Cleanup		Broken mounting strap on fuel tank on a flatbed truck.
7/4/96	1996-IR-98286	Drill Site 12	Crude Oil	3.00	The stem packing on the lock open check valve failed.	Used hand shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/5/96 to be held for future remediation.		The stem packing on the lock open check valve failed.
3/26/93	1993-IR-97423	Drill Site 11	Produced Water	3.00	SPILL OVER OF PIGGING WATER DURING PIGGING OPERATION.	Metis/Cleanup		SPILL OVER OF PIGGING WATER DURING PIGGING OPERATION.
2/4/93	1993-IR-98094	Drill Site 11	Lube Oil	3.00	Air breather on generator iced up and discharged oil.	Metis/Cleanup		Air breather on generator iced up and discharged oil.
8/19/92	1992-IR-97761	West Dock	Diesel	3.00	Truck rolled over on its side on the West Dock Road.	Metis/Cleanup		Truck rolled over on its side on the West Dock Road.
11/17/90	1990-IR-97174	Drill Site 12	Diesel	3.00	Generator trailer's wheel fell off during transport.	YES -		Generator trailer's wheel fell off during transport.
3/16/94	1994-IR-98461	COTU Facility	Diesel	3.00	Released from a cracked drain tube on tanker truck.	Metis/Cleanup		Released from a cracked drain tube on tanker truck.
11/25/93	1993-IR-98068	Pad 10	Diesel	3.00	Leaked from pump on tractor due to factory defect.	Metis/Cleanup		Leaked from pump on tractor due to factory defect.
6/12/91	1991-IR-97456	Drill Site 14	Diesel	3.00	Secondary containment overflowed due to meltwater.	YES -		Secondary containment overflowed due to meltwater.
2/15/93	1993-IR-98112	Drill Site 02	MEG	3.00	Fanbelt came off and hit radiator hose on pickup.	Metis/Cleanup		Fanbelt came off and hit radiator hose on pickup.
1/17/93	1993-IR-97977	Drill Site 12	Methanol	3.00	Worn gasket on hardline allowed material to leak.	Metis/Cleanup		Worn gasket on hardline allowed material to leak.
7/22/93	1993-IR-97946	Drill Site 05	Diesel	3.00	Reservior valve left on and overfilled the sump.	Metis/Cleanup		Reservior valve left on and overfilled the sump.
4/23/94	1994-IR-98168	Drill Site Maintenance	MEG	3.00	Punctured hose on supersucker during transport.	Metis/Cleanup		Punctured hose on supersucker during transport.
5/6/90	1990-IR-96903	Drill Site 17	Diesel	3.00	Triplex pump leaked during a wireline operation	YES -		Triplex pump leaked during a wireline operation

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/28/91	1991-IR-97583	Flow Station 2	Methanol	3.00	Drained out when pig-launcher hatch was opened.	YES -		Drained out when pig-launcher hatch was opened.
3/9/91	1991-IR-97649	Seawater Injection Plant	Diesel	3.00	Level switch on manual caused tank to overflow.	YES -		Level switch on manual caused tank to overflow.
5/15/97	1997-IR-89120	Well Pad N	Lube Oil	3.00	Three gallons of lube oil was spilled at Well N-21. The cause of the spill is unknown. The comtaminated material was placed in hoppers at Santa Fe Pad for transport to Pad 3 and disposal.		Contaminated material ws placed in hoppers at Santa Fe Pad for transport to Pad 3 to be incinerated.	The cause of lube oil spill at N-21 is unknown.
7/8/92	1992-IR-97740	Central Gas Facility	Lube Oil	3.00	Leak from faulty transmission hose on a truck.	Metis/Cleanup		Leak from faulty transmission hose on a truck.
6/10/92	1992-IR-97706	Checkpoint - Central	Diesel	3.00	Fuel line leaked diesel at East Check Point.	Metis/Cleanup		Fuel line leaked diesel at East Check Point.
1/26/93	1993-IR-98036	Drill Site 01	Diesel	3.00	Valve on blow down tee was opened slightly.	Metis/Cleanup		Valve on blow down tee was opened slightly.
4/26/90	1990-IR-96890	PBOC	Crude Oil	3.00	Released from downcomer when removed flange.	YES -		Released from downcomer when removed flange.
6/13/93	1993-IR-97968	Flow Station 1	Crude Oil	3.00	Spill discovered during spring pad cleanup.	Metis/Cleanup		Spill discovered during spring pad cleanup.
5/15/93	1993-IR-97924	Seawater Injection Plant	Seawater	3.00	Defective bleed valve on loading equipment.	Metis/Cleanup		Defective bleed valve on loading equipment.
6/24/97	1997-IR-98688	Drill Site 15	Crude Oil	3.00	Flow line lateral valve stem seal failed.	Used hand shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 6/24/97 to be held for future remediation.		Flow line lateral valve stem seal failed.
4/7/00	2000-IR-94835	Drill Site 03	Crude Oil	3.00	While rigging down Nabors 9es after a RWO on DS 3-27, loader operator discovered puddled crude oil on the ground around the DS 3-27 wellhead (1800 hrs on 4/7/00). Rig secondary containment (herculite liner) was clean and dry. Additionally, the matting boards under the herculite were also clean and dry on top, but wet with crude oil on the bottom side. At no point during the 3-27 workover operations was crude oil handled or introduced into the rig system or wellhead. Nabors loader operator notified Nabors toolpusher who in turn notified SSD Company Rep. Non-emergency spill notification was made (EOA Environmental) and EOA SRT responded by 1900 hrs. Estimated crude oil volume on ground was 3 gallons. Clean up operations commenced immediately and were completed by 2130 hrs. All materials were collected and hauled to the Pad 3 oily solids pit.	Impacted snow was shoveled up and bagged.	Nonhazardous material was taken to Pad 3 for disposal.	BP reporting for SSD on Arco EOA location
9/17/93	1993-IR-98035	Drill Site 15	Diesel	3.00	Fuel was discharged from fuel tank vent.	A front-end loader and rake were used to clean up the contaminated gravel. Clean-up is considered to be 100% complete. - The contaminated gravel was taken to Pad 3 temporary holding pit on 9/17/93 to be held for future remediation.		Fuel was discharged from fuel tank vent.
4/16/91	1991-IR-97297	Drill Site 04	Produced Water	3.00	"Sight glass failed, tanker overfilled."	YES -		"Sight glass failed, tanker overfilled."
7/5/91	1991-IR-97486	Drill Site 13	Diesel	3.00	Triplex pump leaked due to faulty valve.	YES -		Triplex pump leaked due to faulty valve.
8/30/92	1992-IR-97777	COTU Facility	Diesel	3.00	Nozzle fell out of truck while fueling.	Metis/Cleanup		Nozzle fell out of truck while fueling.
9/9/90	1990-IR-97100	J Pad	Diesel	3.00	Sprayed from vent on the top of trailer	YES -		Sprayed from vent on the top of trailer
11/22/92	1992-IR-100824		Seawater	3.00	O-ring on pump iron connection failed.	Metis/Cleanup		O-ring on pump iron connection failed.
2/16/93	1993-IR-98116	Drill Site 02	MEG	3.00	Transmission line on pickup ruptured.	Metis/Cleanup		Transmission line on pickup ruptured.
6/10/91	1991-IR-97453	Drill Site 11	Crude Oil	3.00	Safety wire came off camlock fitting.	YES -		Safety wire came off camlock fitting.
5/1/92	1992-IR-97332	Drill Site 03	Diesel	3.00	Air valve on suction line left open.	Metis/Cleanup		Air valve on suction line left open.
6/23/91	1991-IR-100776		Crude Oil	3.00	Tank overflowed due to faulty valve.	YES -		Tank overflowed due to faulty valve.
9/28/90	1990-IR-97119	Flow Station 2	Diesel	3.00	Heater fuel line leaked at fitting.	YES -		Heater fuel line leaked at fitting.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/12/99	1999-IR-98336	Drill Site 15	Diesel	3.00	Fuel filter split on Tioga heater.	The SRT cleaned up the contaminated snow and diesel. Used loader w/cratcher to scrape spill area. Loaded into waste dumpster. The diesel/snow mixture was placed in a melt tank so it can be skimmed off and re-used for freeze protection.	Diesel will be used for freeze protection.	Fuel filter split on Tioga heater.
9/13/99	1999-IR-94238	Santa Fe Pad	Diesel	3.00	On 09/13/99, a P.E.Support Operator, working on B-Pad, discovered a diesel spill outside B-21 wellhouse. The spill was called into APC Safety and the Environmental Department. Efforts began to determine the source of the spill. On the evening of 09/13/99, at A1W2 warehouse, on Santa Fe Pad, the night grease crew started their grease truck(32-015)to warm up the engine. Upon returning to the truck, approximately 5 to 10 minutes later, the crew discovered the vehicle was leaking diesel. The crew shutdown the vehicle and placed absorb under the unit until the source of the leak could be determined and repaired. The crew then contacted the APC General Foreman and the Environmental Departement to report the spill. When the Environmental Lead Technician arrived at A1W2 to assess the damage, he questioned the wellhead crew as to whether or not they had conducted any work on B-Pad in the last couple of days. The wellhead crew said that they had work on B-21 the night of 09/12/99. Based on this information, it was confirmed that the grease truck (32-015)had caused the 5 gallon diesel spill at B-21. A discussion was then held to determine any other locations that the crew had work on the evening of 09/12/99. Spot checks of the various locations were conducted and another 5 gallon spill was revealed at C-Pad well #22. To summarize, the fuel injection system filter intermittent failure on grease truck 32-015 was responsible for diesel spill at three separate locations, B-21 (5 gallons), C-22 (5 gallons) and A1W2 warehouse on Sante Fe Pad (3 gallons). During the investigation process of this incident it was revealed that this particular grease truck has been taken to VMS repeatedly during the last year for various leaks within the fuel injection system and the generator. In fact there are 8 documented cases where the mechanics have had to repair leaks at various components of the fuel injection system. The mechanics have had to replace the fuel filter 3 times in 1999 alone. The grease truck currently has over 16,000 hours and 116,000 miles on it. The VMS Mechanics think that the PSV on the fuel injection pump may be experiencing intermittent failures causing back pressure to be released to the filter on the low pressure side of the fuel injection system. A spill review meeting was conducted on the evening of 09/15/99. The spill review committee consisted of the night crew Wellhead Technicians, Well Ops Team Leader, WSA Operations Manager, APC General Foreman, and APC Safety. The incident was reviewed and action items were determined to prevent the reoccurrence of a similar incident.		Gravel was taken to Pad 3.	The truck was taken to be repaired.
9/22/94	1994-IR-98384	Drill Site 09	Diesel	3.00	Fuel line on lube truck ruptured.	Contaminated gravel was scraped up with hand tools. - Contaminated gravel was delivered to Pad 3 West Pit on 9/22/94 to hold for future remediation.		Fuel line on lube truck ruptured.
9/23/91	1991-IR-97550	Drill Site 03	Diesel	3.00	Valve left open on hardline fill.	YES -		Valve left open on hardline fill.
4/18/91	1991-IR-97301	Flow Station 3	Diesel	3.00	Fuel line broke on drilling rig.	YES -		Fuel line broke on drilling rig.
12/8/96	1996-IR-98316	Spine Road	MEG	3.00	Blown radiator hose in vehicle.	Scraped up contaminated gravel. -		Blown radiator hose in vehicle.
7/16/90	1990-IR-100737		Diesel	3.00	Leaking valve on blending unit.	YES -		Leaking valve on blending unit.
9/13/92	1992-IR-97787	Drill Site 04	Crude Oil	3.00	Packoffs were leaking on CTU.	Metis/Cleanup		Packoffs were leaking on CTU.
2/10/92	1992-IR-97868	Drill Site 07	Lube Oil	3.00	Truck engine hose came loose.	YES -		Truck engine hose came loose.
4/20/92	1992-IR-97690	Drill Site 02	Diesel	3.00	Pump trucks fuel line broke.	Metis/Cleanup		Pump trucks fuel line broke.
9/17/00	2000-IR-95380	Well Pad J	Crude Oil	3.00	During the TAPs slowdown and GC-2 shutdown, J pad was shut in and depressured. Before restoring production an operator performed a pre-start inspection and discovered oil spraying from the J-10 swab valve stem.	The crude on the tree was wiped up with sorbents. A Super Sucker was used to remove the affected gravel.	The sorbents were placed in an oily waste dumpster. The affected gravel was taken to the Grind & Inject facility for disposal.	The stem seal was replaced.
3/3/90	1990-IR-97241	Well Pad, Roads	Lube Oil	3.00	Hose ruptured on a crane.	YES -		Hose ruptured on a crane.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/13/98	1998-IR-90526	GC-3 Pad	MEG	3.00	Operator discovered a drip of MEG outside of skid 25. It was coming out from under insulation and the exact failure could not be identified. ACS is cleaning. Will have a more accurate volume estimate when they are finished cleaning.		Exempt material taken to Pad 3 for disposal.	Heat trace line failure.
1/22/00	2000-IR-94577	Well Pad D	Diesel	3.00	Drilling rig was circulating diesel freeze protection from the well. While circulating at 4 bbls/min thru the rig gas buster, a slug of diesel/gas was blown up thru the gas buster exaust stack into the gusting wind. The resulting plume raining diesel onto the rig and blew a mist of diesel onto ice/snow covering the gravel pad. A dusting of mist was blown onto the tundra. Circulation was shut down and the snow/ice on the gravel pad was cleaned up immediately. Alaska Clean Seas plans to sweep the misted snow on the tundra. The rig volume estimate was two gallons on the rig in containment, 1/2 gallon on the pad, one pint on the tundra.	Loader was used to remove all material from frozen gravel pad. Hand tools were used to take top layer off snow covered tundra	All material will be reused by rig	NRC contact (Chancellor)
9/12/93	1993-IR-98031	Drill Site 15	Diesel	3.00	Over filled fuel tank.	Metis/Cleanup		Over filled fuel tank.
12/8/91	1991-IR-97603	Drill Site 03	Diesel	3.00	Over filled fuel tank.	YES -		Over filled fuel tank.
3/26/90	1990-IR-100768	Point MacIntyre	Diesel	3.00	Fitting broke on hose.	YES -		Fitting broke on hose.
9/11/99	1999-IR-94220	CPS	MEG	3.00	At 18:00 hours while operator was making rounds checking equipment and taking reading discovered that the No. 1 cooling water pump seal was leaking on the floor area of skid 122. The pumps were switched from 1 to 2 and No.1 was safed out. The operators then proceeded with clean up of the spill. It was noted that some of the glycol had in fact leaked outside the skid. Environmental was notified(Approx. 20:30 hours) that we had a leak on the pad. Operator put down absorbent pad to catch the glycol as it was leaking from the skid. Approx. 3 gallons of glycol leaked from the skid on to the pad. Environmental arrived and placed catch basins under the place where it was dripping. At this point it had almost quit. The seal starded leaking after Veco mechanincs had completed an alignment of the pump to pump motor that afternoon. Mechanic were called back on the morning of the 12th and made an adjustment to the pump seal which stopped the leaking problem. Pump is being monitored hourly for any further leaking problems		The non-hazardous clean up material will be taken to Pad 3.	The pump was repaired.
1/15/91	1991-IR-97437	Drill Site 09	Seawater	3.00	Hose gasket failed.	YES -		Hose gasket failed.
2/10/93	1993-IR-98102	West Dock Road	MEG	3.00	Vehicle Accident.	Metis/Cleanup		Vehicle Accident.
10/15/90	1990-IR-97137	J Pad	Methanol	3.00	Valve leaked.	YES -		Valve leaked.
8/9/89	1989-IR-96749	Drill Site 17, Not specified	Diesel	3.00	Thermal expansion of diesel in a tank caused it to leak through vent.	Not specified	Not specified	Not specified
11/17/89	1989-IR-96844	Drill Site 12, Not specified	Methanol	3.00	Moved a Triplex Pump that was still connected to methanol tank	Not specified	Not specified	Not specified
6/5/89	1989-IR-96665	Drill Site 12, Not specified	Diesel	3.00	"Fluid warmed up, expanded and overflowed from top vent."	Not specified	Not specified	Not specified
6/7/89	1989-IR-96670	Drill Site 01, Not specified	Crude Oil	3.00	Leak from faulty grease- head fitting during well work.	Not specified	Not specified	Not specified
7/23/89	1989-IR-96730	Drill Site 17, Not specified	Crude Oil	3.00	Material leaked from a hard line union which was loose.	Not specified	Not specified	Not specified
10/1/89	1989-IR-100807	Not specified	Diesel	3.00	Leaked from a small hole on bottom of triplex tank.	Not specified	Not specified	Not specified
6/19/89	1989-IR-96684	Drill Site 18, Not specified	Diesel	3.00	Overfilled tank due to absence of return line.	Not specified	Not specified	Not specified
5/7/89	1989-IR-96636	Drill Site 01, Not specified	Crude Oil	3.00	Sprayed from well cap due to lack of o-ring.	Not specified	Not specified	Not specified
6/5/89	1989-IR-96667	Flow Station 3, Not specified	Crude Oil	3.00	Suspected leak during repair of commonline.	Not specified	Not specified	Not specified
7/8/89	1989-IR-96712	Drill Site 13, Not specified	Diesel	3.00	Vented gas from well and sprayed onto pad.	Not specified	Not specified	Not specified
6/19/89	1989-IR-96686	Drill Site 02, Not specified	Diesel	3.00	Suspect leak from well work day before.	Not specified	Not specified	Not specified
10/24/89	1989-IR-96798	J Pad, Not specified	Lube Oil	3.00	Rod punctured engine block on vehicle.	Not specified	Not specified	Not specified
6/15/89	1989-IR-96678	Drill Site 17, Not specified	Crude Oil	3.00	Hardline connection vibrated loose.	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/19/89	1989-IR-96685	Drill Site 02, Not specified	Diesel	3.00	Leaked from faulty valve on pump.	Not specified	Not specified	Not specified
9/25/89	1989-IR-96773	Flow Station 2, Not specified	Produced Water	3.00	Leaked from faulty block valve.	Not specified	Not specified	Not specified
11/12/89	1989-IR-96837	Spine Road, Not specified	Diesel	3.00	Stain was found on road.	Not specified	Not specified	Not specified
7/20/87	1987-IR-100693	Not specified	Crude Oil	3.00	Leak at pipe coupli	Not specified	Not specified	Not specified
1/7/89	1989-IR-96287	Drill Site 09, Not specified	Crude Oil	3.00	Faulty valve leaked	Not specified	Not specified	Not specified
6/9/82	1982-IR-96081	Drill Site 14, Not specified	Crude Oil	3.00	Leaked from dumpste	Not specified	Not specified	Not specified
7/23/88	1988-IR-96475	Drill Site 18, Not specified	Diesel	3.00	Hardline union leak	Not specified	Not specified	Not specified
4/16/87	1987-IR-100691	Not specified	Crude Oil	3.00	Pipe plug failure	Not specified	Not specified	Not specified
7/3/81	1981-IR-96050	Drill Site 03, Not specified	Crude Oil	3.00	Crude left on pad	Not specified	Not specified	Not specified
3/5/89	1989-IR-96911	Drill Site 07, Not specified	Crude Oil	3.00	Cellar overflowed	Not specified	Not specified	Not specified
9/17/88	1988-IR-96509	Drill Site 11, Not specified	Diesel	3.00	Faulty valve leak	Not specified	Not specified	Not specified
9/17/88	1988-IR-96511	Drill Site 17, Not specified	Diesel	3.00	Faulty valve leak	Not specified	Not specified	Not specified
4/11/89	1989-IR-96292	Flow Station 1, Not specified	Crude Oil	3.00	Overfilled tanker	Not specified	Not specified	Not specified
11/18/88	1988-IR-96549	Drill Site 11, Not specified	Diesel	3.00	Hose not drained	Not specified	Not specified	Not specified
3/8/82	1982-IR-96100	Well Pad, Roads, Not specified	Diesel	3.00	Truck overturned	Not specified	Not specified	Not specified
12/17/88	1988-IR-96576	C Pad, Not specified	Methanol	3.00	Overfilled tank	Not specified	Not specified	Not specified
7/11/87	1987-IR-96201	Drill Site 04, Not specified	Crude Oil	3.00	Tank overfilled	Not specified	Not specified	Not specified
10/17/88	1988-IR-96531	Drill Site 07, Not specified	Diesel	3.00	Packing leaked	Not specified	Not specified	Not specified
4/10/89	1989-IR-96291	Drill Site 11, Not specified	Crude Oil	3.00	O-Ring failure	Not specified	Not specified	Not specified
6/20/89	1989-IR-96688	Drill Site 14, Not specified	Lube Oil	3.00	Ruptured hose.	Not specified	Not specified	Not specified
10/26/88	1988-IR-96537	Flow Station 2, Not specified	Diesel	3.00	Punctured tank	Not specified	Not specified	Not specified
1/19/89	1989-IR-96713	Drill Site 05, Not specified	Crude Oil	3.00	Pressure loss	Not specified	Not specified	Not specified
9/13/82	1982-IR-96090	Flow Station 1, Not specified	Crude Oil	3.00	Hose blew off	Not specified	Not specified	Not specified
2/9/89	1989-IR-96823	COTU Facility, Not specified	Diesel	3.00	Fuel spilled	Not specified	Not specified	Not specified
12/26/88	1988-IR-96586	Drill Site 04, Not specified	Diesel	3.00	Valve leaked	Not specified	Not specified	Not specified
12/31/88	1988-IR-96591	Drill Site 04, Not specified	Diesel	3.00	Valve leaked	Not specified	Not specified	Not specified
6/12/88	1988-IR-96422	COTU Facility, Not specified	Crude Oil	3.00	Flange leak	Not specified	Not specified	Not specified
2/2/89	1989-IR-96857	Drill Site 11, Not specified	Diesel	3.00	Faulty seal	Not specified	Not specified	Not specified
5/2/88	1988-IR-96348	Drill Site 07, Not specified	Crude Oil	3.00	Valve leak	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/21/91	1991-IR-97513	Drill Site 03	Diesel	3.00	Unknown.	YES -		Unknown.
12/12/90	1990-IR-97205	Flow Station 2	Methanol	3.00	Unknown.	YES -		Unknown.
11/17/90	1990-IR-97173	Seawater Injection Plant	Seawater	3.00	Unknown	YES -		Unknown
4/3/92	1992-IR-87225	GC-2 Pad	Crude Oil	3.00	Cause is unknown. The spill was discovered during routine inspection. Oil was thought to have dripped from the side of the building onto the snow on the pad. The contaminated snow was scraped up with shovels and takent o A3W2 tank for recovery.		Contaminated snow taken to A3W2 melt tank for recovery.	Unknown
10/7/00	2000-IR-95467	Well Pad J	Diesel	3.00	A Halliburton wireline crew was rigging down after attempting to pull a plug downhole on J-Pad, well #3, when the swab and master valves failed to hold pressure and allowed 3 gallons of diesel to escape from the well bore. The well had been loaded with 250 barrels of water and 50 barrels of diesel, however the well didn't die and had a pressure of approximately 1250 psig. The crew bled off the pressure and fluids from their lubricator and began rigging down. Once the lubricator was removed the crew employed a barrel pump to remove the remaining diesel from their BOP's prior to removal. However the crew noticed that the fluid was not receeding in the BOP. This indicated that the swab valve was leaking. The crew wrapped absorb material around the wellhead and then shut in the master valve and continued using the barrel pump in an attempt to evacuate the diesel from their BOP. In the process, the diesel continued to leak past both valves at a steady rate and they were unable to keep up with the flow of foamy diesel. The crew contacted the Pad Operator, who was off site, and requested that the SSV be shut in to prevent the flow of freeze protect fluid. The crew then assessed the situation and after 1 to 2 minutes made the determination to reconnect their lubricator until the SSV could be shut in. Once the SSV was shut in the pressure and fluid was bled off and the rig down was successfully completed. The wireline crew had been working on this well for two days and requested the tree be serviced on 4 seperate occasions. The APC Wellhead Technicians greased the swab valve for the Wireline crew on the evening of 10/04/00 prior to starting the job on the morning of 10/05/00. The Wellhead Technicians returned to J-Pad twice on 10/05/00 to service the tree valves. The Wellhead Technicians serviced the swab valve for the Halliburton crew on the first trip and then returned that evening and greased the wing, master and swab valves prior to the Halliburton crew rigging up again on 10/06/00. After the Halliburton crew had rigged down on 10/07/00, the Wellhead Technicians returned to J-3 and again serviced the wing, master and swab valves. The Halliburton crew followed their standard operating procedures and due to the actions taken by the crew were able to minimize the volume of diesel that escaped from the wellhead to approximately 3 gallons, of which less than a quart was released into the well cellar or surrounding area.	Majority caught with absorbent pads while spill was occuring the remaining product was wiped up with absorbent also.	Material was taken to approved oily waste dumpster.	none
4/6/00	2000-IR-94843	Well Pad B	Crude Oil	3.00	B pad was safed out around 9:30 PM on 4/5 for module work. Once the wells were shut in and flowlines depressured, a double block and bleed is set up at the wellhead by shutting the wing and master, then opening the swab and tree cap bleed valve. Tags are hung. On any bleed that bleeds continuously, a hose is connected to a bleed trailer. Sometime after the initial safeout and establishment of wellhead bleeds, a subsequent walk-through discovered a spill where well B-3 "burped" oil out the vent. It wasn't continuing to bleed and had resealed itself. The event was called into Spill response hot line but not passed on to the supervisor on days to write a timely LCIR.	Contaminated snow was shoveled up with hand tools and will be taken to pad 3	Contaminated materials to be taken to pad 3	N/A
12/14/00	2000-IR-95728	Well Pad S	Methanol	3.00	After completing rig-up on S-101 for flowback operation, the APC well test unit was put into service for pressure testing. The pressure had reached 200 psig when the pressure dropped. The operator immediately shutdown to investigate the cause of the pressure drop. The pressure drop was due to the pressure gauge coming loose from the high pressure disconnect. There was approximately 2 gallons of methanol spilled and contained inside the well test unit and less than a quart leaked through the unit wall seam onto the ground. Containment and clean-up was initiated immediately. SRT was notified as soon as possible to report the incident.	Sorbent material and shovels were used to clean up inside test unit and affected gravel.	Sorbent material will be handled and shipped as hazardous material. The affected snow was placed in an accumulation tank and will be recycled as freeze protect fluids.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/6/95	1995-IR-87277	Well Pad B	Crude Oil	3.00	Final Report: Pad Operator needed to isolate B pad test separator off gas meter, depressure it, and safe it out for repair. The WPS (well pad separator) had aproximately 870 psi on it and was lined up to an HP header. The operator closed WPS inlet valve, but the outlet was still open. The operator asked the PCC to "take some pressure off the separator". The PCC understood request to mean "equalize the pressure across the separator inlet valve". The PCC lined up the equalizing valve to the LP header and dropped the WPS pressure to approximately 640 psi, then shut in the equalizing valve. The operator thought separator had been depressured to LP pressure and continued to block in, tag, and disable WPS valves. When the PCC and operator discovered the HP pressure still in WPS the PCC offered to take it down to LP pressure, but operator said he already had his valves blocked and disabled and would therefore take care of depressuring locally. The operator isolated the off gas turbine meter at WPS off gas outlet block valve and also down stream ofthe turbine meter. The operator next cracked open the atmosphereic bleed and slowly started to bleed the trapped 640 psi pressure. When pressure reached approximately 100 psi the operator smelled gas blowing in from a vent fan. At that same time he noticed the 3/8" tubing from the bottom of the off gas knock out pot (connected to the WPS sight glass) vibrating violently. The operator shut bleed valve and investigated source of gas smell. He found oil mist had sprayed from the atmospheric bleed over the side o module and onto ground. The operator called his supervisor and requested environmental be called. The supervisor called environmental and investigated the scene. Findings: 1. The WPS valves were found as marked in attached drawing. All closed valves were properly tagged and disabled. 2. The sight glass was full of oil, but the PCC reported to have only a 35% level. 3. The two tubing block valves between the knock out pot and the sight glass were open and untagged. 4. The pressure on off gas meter line had re-pressured from 100 to approximately 580 psi. 5. The operator stated he followed the exact same procedure he has followed for years without any incident except that he takes the WPS pressure to LP first. He explained the details noted above for why he didn't depressure to LP pressure this time, which were confirmed with PCC. The operator further stated he never has shut the 3/8" tubing valves. An instrument tech arrived and verified Level transmitter output matched what the PCC was reading. Within 45 minutes of incident the WPS sight glass lowered and once again showed a level approximating what the level transmitter showed. Conclusions: 1. The root cause of this spill was oil leaking past the bottom sightglass ball check valve, up through the sightglass, through two open block valves, through the KO pot, into off gas line, and ultimately the vent. 2. Contributing cause: High DP (640 psi versus 150 psi) accelerated check valve leak by. 3. The WPS separator hadn't been swept clean with a high gas well prior to safeout to eliminate oil level. 4. The spill could have been eliminated entirely if the entire WPS had been depressured through the slop oil tank. 5. If the 3/8" tubing valves had never been closed in similar safeouts, previous spills were probably only prevented because the ball checks held. BALL CHECKS ALONE DO NOT CONSTITUTE ADEQUATE NOR POSITIVE ISOLATION. 6. Procedures require a standby operator to watch the vent during depressuring. Procedures were not followed.		The exempt cleanup material was taken to T Pad Pit.	
4/25/99	1999-IR-93860	Well Pad G	Methanol	3.00	A spill occurred due to valve failure. After review with HB&R and spill tech's, volume of spill was less than one (1) gallon. Spill was cleaned up immediately.		Fluid will be reused for freeze protection.	
4/1/05	2005-IR-1306449	Well Pad L, In the storage are for the mud related dry products., GC2/SAT	Drilling Mud	2.79	Two bags of salt were broken while a loader operator bumped up against them with another pallet of dry mud products. The contact from the loader resulted in two bags being broken open and spilling app. 20 pounds of salt to the matting board the salt was resting on. None got off the mat and onto the ground.	The spilled salt was put in a bag and used in the mud system it was intened for. The remaining pallet of salt was restacked and the two damaged bags were also added to the mud..	Material was reused for its intended purpose in the mud system.	
4/8/02	2002-IR-200674	Well Pad X, X-pad between X-10 and X-31.	Methanol	2.50	The roustabouts rigged up a 1" hard line from X-10 inner annulus to the X-31 Cosasco valve on the X-31 S-riser to de-inventory the flowline. The operator lined the poor boy up to pressure up the line. When the operator opened up the Cosasco valve, fluids blew out of the swing fitting directly underneath it. The operator immediately shut the valve and wiped up the fluid and eased the valve back open. It held this time so the operator looked the line over for other leaks and found a number of them, at swing fittings and hammer unions. The operator put absorbant pads under everything and hammered the unions up. When all the leaks were stopped the operator noticed a 2' to 3' area around one of the unions where fluid had hit the ground.	Shovels were used to clean up affected snow and gravel from area.	The material was placed into a bin to be reused as freeze protection fluids. The small amount of gravel will be taken to the BP GPB Waste Coordinator for proper disposal.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300. The original report to the ACS spill tech. was approximately 1 gallon of diesel had leaked. Upon arrival at the site in the AM it was found to be Methanol and the ACS spill tech immediately called in a verbal spill notification to ADEC.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/23/02	2002-IR-159746	Drill Site 06, Drill Site 6 Well 11	Crude Oil	2.50	While performing repairs to a leaking stem seal on the lateral line block valve for Drill Site 6 well 11 the Operator and Valve crew discovered snow that was contaminated with crude oil and water. The leak had originated at the stem seal but was not noticed due to the valve being wrapped in an insulating blanket. The valve had also drifted over with snow further sheilding the leak from view. The leak was small and had occurred some time earlier but was not active at the time it was discovered. Approximately 3 gallons of crude and water escaped to the snow and gravel pad. The snow and some gravel was removed and disposed of. Due to -42 degree ambient temperature some of the gravel that was frozen in place will be removed later by ACS.	Loader,and dump box were used to remove contaminated material.	Grind and Inject.	Walt Sandel of ADEC was notified that the spill would be finished up in the spring due to frozen pad.
6/10/01	2001-IR-101561	Drill Site Maintenance	Motor Oil	2.50	Truck 24-328 was being driven from EOA fuel dock to Corrosion building at South Hanger. The truck stalled at the south hanger pad. Survey of the vehicle indicated leaking oil underneath engine. A drip pad was placed at the leak area and spill response was called. Inspection at the leak area revealed that the oil plug was no longer in the drip pan. The truck oil cooling system holds approximately 11 quarts of oil. The extent of the spill is estimated at approximately 2.5 gallons. Contacted Equip. Svcs. Supv who advised that the truck been driven 3000 miles since last PM service. No explanation why oil pan drain plug fell out other than "vibration."	Recovered with hand tools and loader	1 cu. yrd of lightly contaminated material taken to pad 3	This information is being provided to ADEC per 18 AAC 75.300
8/29/07	2007-IR-2386583	Well Pad F, F-PAD Skid 56, GC1	Corrosion Inhibitor	2.50	A CI release was reported by the pad operator to the CIC chemical operator at F-PAD Skid 56. The initial quantity of release is approx. 5 gal. SRT was contacted and responded to the release. The release is suspected to have occurred from the pump head possibly due to a failed diaphragm or a hair line crack above the threads on the head. The hair line cracks are a known manufacturing default. Investigations are ongoing and suspect pump heads are being replaced along with diaphragms.	Material was recovered using absorbents.	Absorbents were properly disposed.	Initially reported on 8/29/07
10/25/02	2002-IR-348590	Well Pad H, Aprox. 25 feet in front of H-5 on Hotel pad. Marked by excavated snow and a orange safety cone.	Diesel	2.50	A pin hole developed in the remote gauge high pressure hose that connects the Inner Annulus to the FESCO unit #317, resulting in a release of diesel of an undetermined amount onto the pad and contaminating the surrounding snow and frozen gravel. The release was not noticed until the following day, where it was observed by a Veco hand, who correctly, reported the infraction to the pad operator. At this time it is assumed that the diesel was injected into the snow and was contained below the snow, but on top of the frozen gravel. The exact time of the occurance is not known at this time, since the problem was not caught until the following day.	Hand tools were used to remove the contaminated snow and Bob-Cat trimmer was used to remove the contaminated gravel.	Contaminated snow was placed in an accumulation bin for hydrocarbon recycle and the contaimated gravel was taken to Drill Site 4 Grind and Inject Facility.	
9/4/06	2006-IR-1968721	Well Pad C, GPB, GC3, C-Pad, C-26, GC3	Hydraulic Fluid	2.50	C-Pad Well Pad Field Operator discovered a hydraulic leak in the gravel and containment spill liner under the C-26 SVS hydraulic control panel. He immediately reported leak to 5700. Leak quantity estimated at 2 gal of hydraulic fluid. This is a RQ. Spill Techs removed the contaminated gravel for the well house. Instrument Tech inspeced the SS tubing and Swagelock SS fitting. There no defects visable. He replaced a small section of the hydraulic tubing and utilized new Swagelock tubing fittings. The repairs were tested at approximately 2000 psig and did not leak. The SVS hydraulic system was returned to service. C-26 was shut-in prior to and after the repairs were completed.	Sorbents were used to clean the spill dike under the hydraulic panel. Shovels were used to remove affected gravel.	The sorbents were taken to an approved oily waste dumpster. The gravel was taken to an SRT accumulation bin and will be taken to Pad 3.	
3/23/01	2001-IR-101082	EWE Pipeline	Hydraulic Fluid	2.50	Sideboom was envolved in a tie in pipeline operation when ground personnel observed transmission fluid dripping from the rear of the equipment. All operations were stopped, extra containment was put in place to contain the leak. During this process 2.5 gallons impacted the pipeline right of way. HCC Spill Responce responded to the site, made proper notifications, cleaned area and disposed of materials per HCC percedures. The equipment was removed from the field and repaired. HCC Equipment personnel have inspected the sideboom and determined that the spill was caused by a transmission line from the filter rubbing on the frame.	Fluids were wiped up with absorbent pads. Contaminated snow and ice were cleaned up using hand tools and oily waste bags.	Contaminated snow will be taken to Pad-3. Absorbent material will taken to approved oily waste dumpster.	
1/27/01	2001-IR-98884	Drill Site 15	Crude Oil	2.50	Job Description DS-15-41: Performing Mechanical Integrity Test on inner annulus. Little Red rigged up on location and tested Inner Annulus to 3000 psi with dead crude. There were no failures during this test. The well head was bled down to 1000 psi and the IA closed. The crew de-mobed and was performing computer work on site when they were instructed to perform an additional MIT on the tree between the Master valve and Tree Cap to 4500 psi. The crew rigged up on well again and began to pressure test when an o-ring failed at the tree cap. When the o-ring failed at the tree cap, dead crude oil was spilled. Upon inspection the o-ring was cut. The well head and ground around the well was cleaned by the Little Red crew. The crew decided the area was clean under the existing light conditions. This well currently does not have a well house. The on site crew did not notify their supervisor, the BP PE or SRT of the incident. The crew changed the o-ring and completed test to 4500 psi without incident. The following afternoon the Production Engineer was notified by the Pad Operator that there was a spill to ground on well 41. The PE immediately notified his supervisor and SRT was called to access the site. The area from the well westard approximately 100 feet by 40 feet had been misted by the dead crude. The Little Red crew did not see the misted area due to the low light conditions. Note: The wind speed was approximately 10 to 15 mph on site at the time of incident.	Used loader with scratcher and bucket to scrape contaninated snow from pad and place in dump box. Hand shoveled area around the well cellar.	49 cu. yds of lightly contaminated snow/ice delivered to pad 3	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/17/02	2002-IR-185132	Checkpoint - Central, Central Check Point	Hydraulic Fluid	2.50	O-ring on transmission failed causing hydraulic oil to be released onto the roadway.	Recovered material with loader and placed into dump box for disposal at Pad 3.	15 cu. yrds of material taken to Pad 3 for disposal.	
3/13/02	2002-IR-183849	Drill Site 13, DS13 Well 30 at the instrument flange between the flowcross and companion valve. At the RTJ ring.	Corrosion Inhibitor	2.50	At 14:20 hours a Chemical operator entered DS13 well 30 and discovered the RTJ fitting seal leaking on the wellhead. The leak was controlled by placing a bucket underneath to capture any further leaking of Inhibitor (01VD121) Proper notifications were made. The well had been shut-in and was just recently brought on line.	Recovered material with hand tools and placed into drum for disposal as hazwaste.	Material will be disposed of as hazwaste.	
4/21/00	2000-IR-94895	Well Pad E	Lube Oil	2.50	A 600 cfm air compressor, No. 86-505 was staged at E pad module for standby air, the compressor blew 2.5 gallons of oil from the seperator, VMS is inspecting the compressor, at this time the suspected reason is a frozen filter.	Affected snow was scraped up with a loader and hand tools.	Non hazardous materal was take to Pad 3	
11/12/92	1992-IR-91562	Drill Site 11	Crude Oil	2.50	While blowing air through a line into an open top slop tank, the person regulating the air pressure was not paying attention and over pressured the line causing diesel and crude to spray onto the pad.		Oily sorbents were taken to the dumpster.	While blowing air through a line into an open top slop tank, the person regulating the air pressure was not paying attention and over pressured the line causing diesel and crude to spray onto the pad.
11/12/92	1992-IR-91562	Drill Site 11	Diesel	2.50	While blowing air through a line into an open top slop tank, the person regulating the air pressure was not paying attention and over pressured the line causing diesel and crude to spray onto the pad.		Oily sorbents were taken to the dumpster.	While blowing air through a line into an open top slop tank, the person regulating the air pressure was not paying attention and over pressured the line causing diesel and crude to spray onto the pad.
8/18/00	2000-IR-95298	Lisburne Production Center	Fresh Water	2.50	During purging operations for start up of the new MI compressor at LPC. N2 was purged out to the pipeline tie-in point that is just off the north end of the LPC pad. This was done on Friday, August 18th. On Saturday the 19th, when the operator went out to the tie-in location to prepare for the tie-in he noticed that there was some glycol on the ground under the tie-in point. SRT estimated the volume to be 5 gallons. The glycol in the line was left over from hydro of the line.	SRT responded and cleaned up product with sorbents and sucked up fluids with vac truck. Cleaning is currently going on and more detail on final report.		A timeout was called at LPC and all employees were reminded that we should assume in these types of situations that there is fluid in the lines and have secondary containment in place.
8/18/00	2000-IR-95298	Lisburne Production Center	MEG	2.50	During purging operations for start up of the new MI compressor at LPC. N2 was purged out to the pipeline tie-in point that is just off the north end of the LPC pad. This was done on Friday, August 18th. On Saturday the 19th, when the operator went out to the tie-in location to prepare for the tie-in he noticed that there was some glycol on the ground under the tie-in point. SRT estimated the volume to be 5 gallons. The glycol in the line was left over from hydro of the line.	SRT responded and cleaned up product with sorbents and sucked up fluids with vac truck. Cleaning is currently going on and more detail on final report.		A timeout was called at LPC and all employees were reminded that we should assume in these types of situations that there is fluid in the lines and have secondary containment in place.
9/28/00	2000-IR-95432	Drill Site 03	Seawater	2.50	While supporting coil work at well 3-36, two new tiger tanks had been staged on the pad awaiting the start of work. Approximately 196 barrels of slick 2% KCl water had been placed in tank number VE-003 on September 27. This volume resulted in fluid being just above the upper edge of the forward inspection hatch. During the afternoon of the 28th, a wireline crew rigged up on the well. As they were rigging down to leave the location, they noticed fluid leaking from the front hatch. Approximately 2 gallons leaked onto the gravel pad. Another 1/2 gallon spilled into secondary containment. A tanker was dispatched to draw fluid from the tank to lower the level to below the front hatch. Upon inspection, it was discovered that the rubber gasket was damaged and that the sealing surface of the hatch was rough and otherwise uneven. The hatch and the gasket were repaired and the tank was returned to service.	TBD	TBD	To be cleaned up when tank is moved.
9/21/93	1993-IR-86697	Spine Road	Lube Oil	2.25	Driver error and extenuating circumstances caused vehicle to leave road and overturn. Contaminants were shoveled into and sucked up by a guzzler. Contaminants were taken to Pad 3. Tundra was scarred by the truck.		Contaminants taken to Pad 3.	Driver error and extenuating circumstances caused vehicle to leave road and overturn.
10/26/00	2000-IR-95520	Well Pad B	Drilling Mud	2.13	Steam was blowing through the pit/shaker drain hose which runs to the cuttings tank. This hose was tied-off such that at the time of the spill, the hose exit was in close proximity to the liquid level. A splash resulted when the steam hit the liquid. About 2 gallons of mud splashed out of the tank and into the tank's temporary containment. The wind carried a mist (est 2 cups) onto the snow covered Pad. The spill was cleaned up by collecting the dirty snow and putting into the cuttings tank, and fluids were sucked out of the temporary containment. The hose was repositioned to prevent reoccurrence.	The spill was cleaned up by collecting the dirty snow and putting it into the cuttings tank, and fluids were sucked out of the temporary containment.	All the materials were put back into the cuttings tank for reuse.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/16/03	2003-IR-437382	Drill Site 15, DS #15 West side of manifold building	Diesel	2.00	The emergency generator fuel tank developed a leak and was leaking diesel into the enclosed generator trailer. The operators were trying to lower the level in the tank below the hole in the tank, and at the same time keep the generator running because shore power was not available and the generator was the only source of power for exhaust fans and heat at the Drill site. While de-inventorying the fuel tank, the tank operations was transferring to overflowed.	Recovered material with bobcat loader and hand tools.	1 cubic yard of material taken to Pad 3 for disposal. liquids will be recycled.	Spill Review--- This spill occurred when the Peak Driver was attempting to prevent an on-going spill on the diesel generator as DS-15. DS-15 had to operate the generator since power line were severed the previous day in an accident. As such, the driver and Operator were operating outside their normal course of day to day operation. Despite the circumstances on-hand, the driver and the opertaor used good fuel transfer practices, but the Peak Driver forgot to account for quantity of liquid in the hose before he disconnected it form the generator. Volume of liquid in the hose exceeded the void avaiable in the holding tank which resulted in a spill. Peak Driver potentially averted other potential events with the generator by removing the combustible material from an operating unit.
1/16/05	2005-IR-1209456	VMS Building, VMS Pad, Non Process Area	Diesel	2.00	employee discovered diesel on snow at heater he was assigned to start.	The contaminated snow was removed from the gravel pad with loaders and shovels.	The contaminated snow will be melted down and sent for recycle.	The fuel line is positioned in a manner that it protrudes from the bottom of the Tioga enclosure (from the fuel tank enroute to the heater). It was removed (S Pad) from packed snow that resulted from a snow storm (Phase III) during a period of intense cold. It appears that the fuel line ruptured during the extrication. The contents of the fuel line were more than 75% consumed and the equipment was not running. Due to the tilt of the heater while connected to the tow vehicle during the hauling to the VMS there was no known leakage, nor knowledge of the line rupture at the time.
1/19/05	2005-IR-1213753	Flow Station 1, 4920 Flare Pit Area, FS1/SIP/STP	Natural Gas Liquid (NGL)	2.00	1802 Turbine/ Compressor shutdown unexpectedly. Shortly thereafter liquids were observed spilling from the STV auxiliary flare.	None: HC Liquids burned off.	None needed. HC Liquids burned off	Due to slope of flare line changing over time (VSMs "jacking") this created 'pocketing' in the line, containing HC liquids, and causing the drain system to become partially ineffective. The small amounts of built-up liquids are forced out during automatic system depressurization. During a planned turn around this summer, surveying these VSMs is scheduled to determine specific areas to modify, shortening or lengthening. Once completed, this will restore the effectiveness of the drain system, overall.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/2/02	2002-IR-176784	Drill Site 15, DS 15 # 38	Fresh Water	2.00	CTU #5 and the work platform were rigged up on Drill Site 15 Well # 38 performing a perf job. After the perf guns were fired, an employee conducting a walk around noticed fluid dripping underneath the work platform in the cellar area. He radioed the coil supervisor and advised him of the drops, he then went up on the work platform to check the area in an attempt to find the source of the drip. He noticed fluid dripping from the injector, and again notified the coil supervisor. Operations were briefly suspended while the crew notified the Spill Response team. . The crew could not find the source or the fluid. They decided to increase the pressure on the pack-off and continued with operations. It was later determined that the pressure on the pack-off was set to low and this allowed fluid to discharge from the system. All notifications were made and the Spill Response team estimated that 4.5 gallons of 60/40 methanol were released with 1.5 gallons into secondary containment. The Spill Response Team returned to location and removed the contaminated material from underneath the rig-mats the following day after the coil unit moved from the well. No injuries resulted from this incident.	Bobcat, shovels, and dump box were used to remove contaminated material.	Contaminated gravel was brought to G&I for disposal.	Spill was initially reported as being 3 gallons. After the coiling tubing rig moved off location the estimate was brought up 6 gallons. Spill was reported to State Troopers. Contact person at the Troopers was Elane Renny. Note: on my earlier report I did not state that this was a 60/40,Methanol/water mix.
2/12/05	2005-IR-1240725	C Pad, C-PAD - Compartment 4 of tanker 68-241, Non Process Area	Corrosion Inhibitor	2.00	While loading corrosion inhibitor onto tanker 68-241, the C-PAD Tech noticed CI leaking from a faulty Vitalic seal on the internal valve of the tanker. An approximate 2 foot area of gravel pad was contaminated. Compartment 4 (the compartment with the leak) of that tanker has no secondary containment. SRT was notified. Upon inspection of the tanker it was realized that the leak occurred at the previous parking area as well (U11 gravel floor on MCC pad). SRT inspected the U11 site and identified about 1 quart of CI that had leaked onto the gravel floor inside the U11 building.	Hand tools ad absorent pads were used to clean up the spill.	Contaminated gravel will be disposed at Pad-3. The absorbents will be disposed as hazardous waste. The recovered snow will be melted down and disposed base on analytical data.	Upon inspection of the tanker it was realized that the leak occurred at the previous parking area as well (U11 gravel floor on MCC pad). SRT inspected the U11 site and identified about 1 quart of CI that had leaked onto the gravel floor inside the U11 building.
7/10/07	2007-IR-2333915	Main Construction Camp (MCC), MCC Bullrail, Non Process Area	Diesel	2.00	At approximately 0800 vehicle 24-349 experienced a diesel fuel line leak. The vehicle was at the MCC bull rail when the spill was discovered during 360. The quantity estimate is 1 gallon. SRT will make the final quantity estimation due to the truck is still being parked on top of the spill and awaiting the tow truck. Notifications were prompt to 5700 and CIC TL.	Bobcat and dump box were used to remove contaminated material.	Material was brought to Pad 3 for disposal.	John Haberman, IM Engineer and Element 10 Champion, has determined that 2007-IR-2333915 should not have been classified as an uncontrolled release. per email dated 8-21-2007 from Julia Rachford to B. Oxford Changed to reflect directions. box 9-2-07
8/7/04	2004-IR-1005335	Drill Site 15, Drill Site 15 Wellhouse 15-33 Edge of Pad, FS3	Hydraulic Fluid	2.00	Employees were involved in moving wellhouse 15-33 back to the wellhead to reset it. Wellhouse 15-33 was sitting on the edge of the pad with an ESD drum inside it which was tied down. Procedure states that before a wellhouse is moved the ESD drum should be empty. This procedure was discussed among the employees before the job began. Because the wellhouse was sitting on the edge of the pad and it had been removed from the wellhead 3 months prior. The employees assumed that the ESD drum was empty. Employees went to hook the wellhouse up to the mobile crane and began to move it back to well 15-33 and reset it. When the crane adjusted it¿s load the ESD drum inside the wellhouse tipped over spilling hydraulic fluid to the pad. Employees immediately shut the job down and contacted their supervisors and VECO Dispatch and reported the incident.	Hand tool's were used to remove contaminated gravel.	Maerial was brought to pad 3 for disposal.	Wells Group held a spill review/investigation meeting on August 8, 2004. Wells Support will initiate JSAs for similar jobs in the future. VECO will have safety stand downs to discuss this incident, and the findings of this spill review with its crew.
11/30/03	2003-IR-695871	PM-2, outside module 4923 at PM-2.	Sewage	2.00	2 gal sewage leaked into containment box and onto ground after sewage pickup.	Hand tools were used to chip up contaminated snow, and ice.		Spill Investigation: Met with TJ Barnes to discuss the spill. Learned that the faulty valve is being replaced. Drivers to report faulty valves to facility Operators. Note: ADEC Waste Water was notified by phone message.
12/6/02	2002-IR-387023	Well Pad F, F-Pad	Crude Oil	2.00	Operator failed to check level accuracy in sightglass of slop tank before bleeding a flowline into the tank. The tank was full or near full and shortly after he started bleeding the flowline into the tank, he heard fluid escaping the vent line and shut down the bleed.	90 %of the crude oil on the side of the skid was removed by using a manlift, rags and cleaning agent. The contaminated snow and gravel is being removed using hand tools.	Rags and absorbent will be taken to an approved NSB oily waste dumpster. The cotaminated snow and gravel will be taken to the T-Pad Storage pit.	Due to mechanical limitations, access difficulty and weather conditions we are only able to access 90% of the spill on the side of the skid. Clean up will be completed when weather conditions will allow pressure washing.
9/1/04	2004-IR-1041793	C Pad, EOA C-PAD yard, surplus vehicle storage, Non Process Area	Lube Oil	2.00	A Fire Truck staged at EOA CPAD for the surplus program was discovered to have had a slow gear lube leak on 09/01/04. A light sheen was discovered during the recent rains and the cause was traced backwards. SRT was contacted and the final cleanup occurred 09/07/04. SRT notified CPAD TL on 09/07/04 that the release qualified as a reportable spill due to the volume of material found in the pad dirt. SRT estimates approximately 2 gallons of gear lube was released.	Vac truck's, Super Suckers, Bobcat, and dump box were used to remove contaminated material.	Fluidwent to Pad 3 for disposal. Contaminated gravel will be staged at Pad 3 until future remediation.	This spill and preventative action was discussed in AM safety meeting. Other preventative options were discussed and all rejected as being unworkable relating to spill pads, dikes and containtainment pits.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/11/03	2003-IR-411874	Well Pad N, N-Pad	Diesel	2.00	Due to a mechanical failure, two gallons of diesel spilled to the pad at N-20. The failure was a leak in the fuel line due to vibration with the fuel line and fuel clamp. The diesel spill was spotted and the Tractor was shutdown. SRT was called to the scene.The diesel missed the primary containment placed under the Tractor.	Hand tools were used to remove the contaminated snow from the pad.	The material will be taken to a melt tank and offered for hydrocarbon recycle.	Because the pad had a ice layer put down over the gravel at the beginning of the winter this prevented the diesel to penetrate the frozen gravel and aided in total recovery of the product.
4/13/01	2001-IR-101216	Well Pad M	Lube Oil	2.00	An o-ring gasket failed on the turbo oil supply line on the caterpillar dozer. Line was taken apart inspected, o-ring replaced and line reassembled. Unit was put back in service.	Clean up was done using sorbents and shovels.	The oily sorbent were put in the NSB oily waste dumpster. The snow was taken to pad 3.	The line was taken apart, inspected, line reassembled. Unit was put back in service. This information is being provided to fulfill the spill notification requirement under 18 ACC75.300
8/7/03	2003-IR-588507	Well Pad R, R-35	Diesel	2.00	During well mechanical integrity testing of the Outer Annulus, a pump truck was pumping into the OA with diesel to start the hydrostatic pressure test. As the pressure climbed to 1000 psig, fluid started leaking into the conductor pipe and cellar. All pumping was shut down and the OA was bled to 0 psi to stop the leak. Surface casing appears to have small pinhole leak.	A supersucker was used to remove all the contaminated gravel from the cellar area.	All of the fluids have been taken to Pad-3. The contaminated gravel was removed and taken to Grind & Inject Facility.	A tubing tail plug was inserted into the casing to stop the leak. After monitoring the leak appears to have stopped. Note: Initial report was sent in on 08/08/03. G.G.
6/23/01	2001-IR-101697	Well Pad P	Produced Water	2.00	In the process of pigging the P/W Y to P 10" line. Pig was isolated in receiver and receiver was drained and depressured to a couple of pouds of pressure. Vent to atmo. was opened slowly and there was no sound of liquids. After pullling pig from receiver and cleaning up. We saw some over spray on skid wall as we were leaving pad, this is when we found said spill. Called Matt at Enviro. and he came out and made estimate.	Gravel on the pad will be removed with hand tools and heavy equipment. Spray on side of Skid 504 will be wiped down with absorbent pads.	Contaminated gravel will be taken to Pad-3. Absorbent pads will be placed in an approved oily waste dumpster.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300. Verbally reported to ADEC (Troopers Hotline), and ADNR @ 10:47 p.m.
5/31/06	2006-IR-1853063	Well Pad, Roads, Pipeline access road to Put River immediately east of West Dock road, Non Process Area	Diesel	2.00	GPMA operator identified diesel on gravel roadway that was carried to the tundra by stormwater run off. Although equipment had been demobilized multiple companies and work crews from several departments had been working in the area to complete GPMA pipeline repairs over the past few months and the leak was thought to have occurred during this work. Equipment used on the pipeline repair project had been previously fueled in the vicinity of the contamination that was identified.	A supersucker truck and hand tools will be used to collect hydrocarbon-contaminated gravel. Sorbent material will be used to collect as hydrocarbons from the surface of the tundra puddle. A vacuum truck will be used to collect contaminated water from the tundra puddle.	Contaminated gravel to be stored at Pad 3 West pit for future remediation. Contaminated fluids to be managed as recyclable hydrocarbons. Contaminated absorbent material to be disposed as solid oily waste.	Note: this is the final report. All fluid's, and gravl was removed from site. No visible sheen is present, and gravel was replaced and road was put back in to service.
8/3/04	2004-IR-999964	Drill Site 02, DS 2 well #37 In cellar., FS1/SIP/STP	Crude Oil	2.00	Crew bled off pressure from lubricator with 1/2" hose. Pump truck then sucked back fluid from lubricator. Secondary bleed port was opened and no fluid was present. Lubricator was then ustabbed and approximately two gallons was released into secondary containment and gravel cellar.	Well and walls were wiped down with sorbents. Contaminated gravel around the well was recovered with a super sucker.	The sorbents will be disposed as oily waste and the gravel was taken to G&I for disposal.	Wells Group held a spill review for this spill. Actions items agreed upon during the review are reflected in this IR. NOTE: This is the Final Report
4/18/03	2003-IR-488094	Well Pad G, G-Pad	Crude Oil	2.00	During night shift, the Pad Operator was preparing to Safe-out the test separator for upcoming work on the gas meter. During the bleed down operation, the Operator inadvertently left a valve partially open upstream of the vent line. This partially open valve allowed crude oil to be carried out of the vent line along with the gas being vented. As soon as the Operator heard the liquid pass through the vent valve, he immediately shut down the operation. Approximately 2 gallons misted across the pad and onto the tundra.	The contaminated snow on the pad was cleaned up with heavy equipment. The contaminated snow on the tundra was removed with hand tools and snowmobiles.	All of the contaminated material has been taken to T-pad storage pit.	Initial spill volume was beleived to be 1-gallon during the night but later estimated at two gallons once the area became more visible in the daylight.
4/13/01	2001-IR-101221	Kuparuk River	Lube Oil	2.00	While hauling gravel to L-Pad, one of the right rear tires on a B-70 trailer failed, causing the other right rear tire to fail. Less than two gallons of water condensate and a trace of Freylube tire lubercant spilled out. All of the material was contained on the roadway. BP security arrived and handled the traffic with ACS attending to the spill cleanup. The tires were changed and the unit returned to service.	Shovels and brooms were used to clean affected gravel.	The non-hazardous material was taken to Pad 3.	Tire was replaced and unit put back in service. This information is being provided to fulfill the spill notication requirement under 18 ACC75.300
2/27/02	2002-IR-178939	Flow Station 1	Crude Oil	2.00	Some days after a recent blow, the area operator went out to clear the steps to the loading station and encountered a small amount of crude oil in the snow. No idea of who left it. Nothing was reported. Operator reported spill to 5700. The SRT responded and found more layers of crude in the snow. It appears that the crude was an accumulation from several previous spills.	Collect contaminated snow	Reuse or recycle	This record was changed from a leak to a spill on 6/22/02 by Michael Stewman. The record was originally mistakenly keyed in as a leak.
1/14/03	2003-IR-413783	Well Pad S, Behind S-108 wellhouse at gas lift root valve.	Methanol	2.00	The well S-108 had been shut-in since January 4, 2003. The methanol being injected into the gas lift line to prevent freezing downhole was not shut off, so the gas lift line began to fill with methanol. The line was blocked off on both ends, so the pressure began to build. The methanol started leaking out of the stem seal of the header root valve.	Contaminated snow and gravel was shoveled up and placed in bags for disposal/recycle.	The contaminated gravel was given to the hazwaste coordinator for proper disposal. The methanol/snow was taken to the SRT accumalation melt tank for reuse as freeze protect fluids.	Pad operator on scence placed spill containment under drip to reduce further contamination to ground once the drips were noticed.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/15/04	2004-IR-903815	Drill Site 11, DS11 # 27, FS2/COTU	Crude Oil	2.00	Night operator found small leak on blinded f/l needle, vlv was not fully blkd & cap was not tightened properly	Bobcat, Loader, and dump box were used to remove contaminated material.	Contaminated material was brought to G&I for disposal.	Contamination from an earlier spill was found during the excavation of this spill. Well cellar will be remediated this Summer.
3/26/01	2001-IR-101113	NW Eileen	Diesel	2.00	Truck was parked on west side of L Pad lay down yard after being loaded with pipe. Ground personnel noticed fuel leaking from right fuel tank. Driver immediately shut off truck, put extra containment under the fuel tank and proper notifications. HCC Spill Response, HSE Rep. and ACS Tech. responded to site. HCC mechanic confirmed the crossover line was leaking. ACS Tech estimated approximately 2 gallons of diesel impacted the L Pad lay down yard. Spill clean up was coordinated by ACS and disposed of as per HCC/BPXA procedures. Right fuel tank was isloated and truck was taken back to HCC Equipment Yard for repairs.	Contaminated snow and ice were removed by hand tools, sorbent, oily waste bags and a loader with a scratcher.	Material will be melted, diesel will be recovered and reused in well work. Water will be reused or evaluated for class 1 disposal.	This information is being provided to ADEC to fulfill spill notification requirements under 18 ACC 75.300.
5/14/05	2005-IR-1370000	Well Pad E, GC1, E-Pad, E-9 well house, P-Pilot SS instrument manifold. , GC1	Methanol	2.00	At approximately 0330 hrs, the Well Pad Operator entered E-09 Well House during his normal pad run duties. He thought he detected a gas leak from the P-Pilot insulated box. When he disassembled the insulation panels, he discovered that methanol had leaked from P-Pilot, SS instrument manifold fittings from the freeze protected well. Snow accumulation hindered leak detection. 5700 was notified. This spill was estimated to be 2 gallons of neat methanol and is a reportable to spill to ADEC. This leak at the SS manifold fittings will be reviewed with RCFA.	Hand tools were used to recover contaminated gravel inside the well house.	Drill site 4 Grind and inject	A review of the fittings and the instrument are being reviewed to see if there was a manufacture problem.
12/29/05	2005-IR-1673239	Well Pad S, S-pad, GC2/SAT	Hydraulic Fluid	2.00	A core fleet trimmer head/loader developed a hose fitting leak which released hydraulic fluid at pressure 60' into the air. As there was an approx. 15mph wind, the fluid was then carried by the wind onto the snow covering on the tundra.	Shovels, Snowmachines, a loader were used to remove contaminated snow.	All the snow has been taken to T-Pad storage pit.	The verbal notification was made by the GPB environmental advisor on 12-29-05 at approximately 1315 hrs.
5/18/01	2001-IR-101463	Well Pad E	Crude Oil	2.00	Leak developed from faulty P-pilot root valve on Well E-16. Night Operator discovered leak and notified Spill Hot line; Enviromental came out and reported that 2 gallons of crude oil was spilled onto gravel inside the well cellar and behind the well house; about 1/2 gallon spilled into containment under the S-riser. On 5/23/01 Instrument Tech replaced root valve.	The contaminated snow and gravel was removed using hand tools and a loader. Standing crude was wiped down with absorbent pads.	The contaminated snow and gravel was hauled to pad-3 dipsosal facility in dumptruck. Absorbent pads were placed in an approved oily waste dumpster.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300.
11/29/05	2005-IR-1635479	Well Pad M, Skid 56 M pad; corrosion Inhibitor system, GC2/SAT	Corrosion Inhibitor	2.00	Pump head failure on M pad corrosion inhibitor. SRT called (1-5 gal). Actual cause still under investigation.	Sorbent material was used to clean up spilled material and containment.	The sorbent material was taken to an approved NSB oily waste dumpster.	Verbal notification was made by the GPB West environmental advisor Jim Short at approximately 1620hrs.
5/22/01	2001-IR-101461	Access Road	Diesel	2.00	GBR truck delivering manlift to rig stopped on Y pad access road. Driver put drip liner under truck. Leaking fuel line not over drip liner spilled 2 gallons of diesel onto road. Driver cleaned up spill. The cause of the damage to the fuel line is not known but thought to be from a rock thrown up under the vehicle.	The GBR truck driver cleaned up the material with hand tools and placed it into oily waste bags.	Material was taken to the GBR shop and diposed of in their incinerator.	This information is being provide to fulfill the spill notification requirements under 18.ACC 75.300.
5/26/01	2001-IR-101469	Well Pad B	Diesel	2.00	A Slickline crew was performing post-rig wellwork on B-22A. Day crew had arrived on location at 0600 hrs. The day crew had removed the lubricator from the well twice in the morning. At the completion of the third trip in the well, they closed the swab and bled the fluid filled lubricator to a bleed tank. When the crew raised the lubricator from the wellhead, 2 gallons of diesel spilled from the break. Further inspection found that a secondary needle valve had not been opened during this break from the well which allowed a small amount of diesel to become trapped in the lubricator.	Material was cleaned up with a loader, dumptruck, and hand tools.	Material will be taken to Pad-3 for disposal.	This information is being provided to fulfill the spill notification requirements under 18 ACC 75.300
8/1/03	2003-IR-584793	GC-1 Pad, GC-1 pad	Diesel	2.00	A broken fuel line on a temporary replacement truck use by the Rover was discovery on the pad in the area bewteen Skid 454 and 525. The rover immediately call the spill hotline at 5700. The ACS tech reponded quickly, survey the area. The Rover and ACS tech back track the area the truck had travel. Found contaminated area in front of the field spock office and beside the BOC maintenance shop. The material was diesel and the total surface area impacted was about 70 sq.ft.	Released material and contaminated gravel were recovered by shoveling gravel into oily waste bags	Recovered material has been taken to an approved waste accumulation bin at Santa Fe Pad, WOA	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
8/20/01	2001-IR-111834	Well Pad S, S-pad	Methanol	2.00	During a tracer project on S-pad manned by " Chemical Tracer INC, a small contract company ,Two gallons of MEOH leaked out of triplex pump on S-pad. A small valve had been left open while the pump was hooked to a MEOH tank. MEOH slowly leaked (gravity fed) into the contaiment area of the pump. The containment area did not function properly as it allowed the 2 gallons to spill onto the gravel. While the primary cause of this spill was a valve left open and unattended , the primary containment lacked intergrity (did not overfill).	The contaminated gravel was removed and put in oily waste bags.	The contaminated gravel was taken Waste coordinator for disposal as hazardous	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
11/7/04	2004-IR-1120342	Well Pad V, GC2/SAT	Methanol	2.00	A vacuum truck (86051) was loading returns at V- pad, It left the job site at 10 AM. At about 3 PM the ASRC group discovered a spot near where the vacuum truck was positioned. The ASRC group reported the spot to the WOA spill hotline number. The stained area was increasing in size and appeared to have the melting characteristics associated with methanol. The driver was headed to unload 290 Bbl¿s 80% crude oil and 20% oil based mud at G&I. When he returned to Victor pad the area in question was coned off.	Hand tools were used to remove the contaminated snow from the Well Pad	The material was taken to the GPB waste coordinator for proper disposal.	After finding the material did not freeze it was realized that it was a methanol based material.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/21/07	2007-IR-2127097	Drill Site 11, 11-38 well cellar, FS2/COTU	Diesel	2.00	Drill Site Operator entered well house and found diesel dripping from the inner annulus gauge manifold. Drips were accumulating in the well cellar.	Hand tools were used to remove contaminated gravel.	Gravel was brought to Pad 3 dor disposal.	NOTE: This is the Final Report. This cellar has been identified for cleanup this summer.
3/7/02	2002-IR-179750	Well Pad A, Outside A-23 well house	Corrosion Inhibitor	2.00	A leak was discovered on the Chemical Test Unit pump at A-23 during performance of daily routine maintenance. The leak was due to failure of the pump plunger packing. Leak volume was determined to be about 2 gallons of corrsion inhibitor. The pump skid is designed with containment capabilities far greater than storage capacity and all product was captured within the containment pan. Proper reporting was conducted and spill clean-up was performed.	Hot water was used to flush the material from the snow inside the containment area and was pumped into a drum.	The material will be taken to pad 3 disposal facility.	The pump skid is designed with containment capabilities far greater than storage capacity.
7/7/03	2003-IR-560965	Flow Station 2, Module 4912 at FS-2.	Corrosion Inhibitor	2.00	The VD121 wet gas inhibitor tank was overfilled due to the tank sight glass not reflecting the proper tank level or the transfer pump not shutting down properly at end of the fluid transfer.	Spilled chemical was mopped up and recycled to the production stream and used for corrosion inhibition.	Material was recycled where it will be returned to the process system as an inhibitor.	Further evaluation required to verify root cause and to determine course of repair action.
6/14/03	2003-IR-538372	Flow Station 2, MODULE 4913	Fresh Water	2.00	DURING DEMOBE OPERATIONS OF AN ABANDONED LINE, SOME RESIDUAL CHEMICAL SPILLED OUT WHILE SECTIONING THE LINE FOR REMOVAL.	Fluids were picked up and put back into process.	Fluids were put in to back into system to be used for water Clarification	Notification was made to the State Troppers. (NOTE) This chemical is Water Clarifer
1/14/03	2003-IR-414207	Well Pad, Roads, BOC pad and Spine road entance	Lube Oil	2.00	At approximately 17:15 this evening a Peak equipment operator was entering the spine road from the Annex 1 parking lot. The operator was turning right, toward VMS. The passenger side tires of the trailer left the shoulder of the road on the inside of the corner. The tires dropped below grade level and placed the trailer off camber. The operator stopped the unit and the dozer slid off the trailer landing on its side. The operator contacted his supervisor, SRT and security. Peak’s Deadhorse base camp was contacted and dispatched equipment to right the dozer. The dozer was inspected and restarted by fleet maintenance personnel on site. The dozer was taken to PBOC fleet shop for further mechanical inspection. The tractor and trailer were taken to VMS for inspection. No physical damage was identified during the preliminary field inspection. Everything down to the glass and lights is intact.The incident resulted in a small amount of engine oil being released.	Affected snow was removed using shovels.	The contaminated snow was taken to T-pad storage facitily.	The actual tundra was never touched. Only the snow on top of the tundra was affected.
1/20/01	2001-IR-95897	Drill Site 15	Diesel	2.00	On 01/20/01 at approx. 05:00 employees hooked up a hard line at DS 15-5 and pumped it full of diesel. A walk down of the system was done before it was pressured up to 3500 psi and no leaks were found in the system. As the system was pressured up, an employee noticed that the needle valve wasn't fully closed and was leaking. The employees attempted to control the leak and were able to close the needle valve with a cresent wrench. The reason that the needle valve leaked is because the employees didn't put the cap on the JIC fitting attached to the needle valve. A worker checked the needle valve by hand and thought it was closed, it turned out that the needle valve was sticky and wasn't fully closed. The crew on-site used absorb pads to soak up the spill. The employees estimated that one (1) quart of diesel spilled on the ground. The employees double bagged the diesel soaked absorb pads and disposed of them in the dumpster at Well Support Pad. At 10:00 am the workers reported the spill to the day shift supervisor who in turn notified SRT. SRT went to the site and discovered that there was more diesel fuel in the lower levels of ice and snow on the work pad and cleaned it up. The new estimate by SRT is that appox.three (3) gallons of diesel was spilled. It was discovered at the investigation meeting that the wrong dumpster was used to dispose of the oily waste bag. The oily waste bag was retrieved from the dumpster and taken to SRT for proper disposal.	Recovered product with hand tools and placed into oily waste bags for melting and beneficial reuse.	15 bags	Previous final report had incorrect quantity. Correct quantity is 2 gallons.
4/4/01	2001-IR-101162	Well Pad E	Diesel	2.00	A Ford truck parked for ca. 1 hour (idling) outside the CDR-1 rig camp leaked about 2 gallons of diesel fuel from a leaking fuel line. The driver discovered the leaking line after arriving at the Peak camp and notified the rig Company Rep of the possibility of a spillage at the rig camp. The spill was subsequently confirmed and the ACS spill technician was contacted. The tecnician evaluated and cleaned-up the spilled diesel.	Hand tools were used to clean affected snow and ice.	The material was put into a melt tank for reuse as freeze protect fluids.	A spill tray was in use but the leak was towards the back of the truck.
12/5/04	2004-IR-1155504	Well Pad E, E-20, GC1	Methanol	2.00	E-pad operator found 2 gallon methanol spill from E-20 wellhouse choke and flange behind wellhouse. Operator called 5700 and put a drum under the leak coming from the choke. Methanol was dripping from the tattle-tale on the choke bonnet. Grease crew was called and the leaking flange behind the wellhouse was tightened and the leak stopped. The choke trim was pulled and a damaged o-ring gasket changed out. Worn gasket was given to the facility engineer for inspection.	Shovels were used to recover contaminated gravel.	The gravel was taken to the GPB Waste coordinator for proper disposal.	The worn gasket was given to the facility engineer for inspection.
7/19/01	2001-IR-71252	Drill Site 12, DS 12 Well #29	Hydraulic Fluid	2.00	While closing annular preventer on Doyon #16 a quik connect fitting on hydraulic line split & sprayed hydraulic fluid in & around cellar.	Recovered w/ Bobcat & hand tools. Loaded into dump box for disposal @ Pad 3.	10 cu yds. of lightly contaminated gravel taken to Pad 3 for disposal.	This information is being provided to ADEC per 18 AAC 75.300.
5/1/01	2001-IR-101359	Drill Site 01	Hydraulic Fluid	2.00	The Drill Site Operator was in the process of pumping the surface safety valve (ssv) to the open position. As the valve traveled open, produced water began leaking from the vent fitting on the SSV hydraulic actuator barrel. This is an indication that the stem seals are leaking. The WEll Services group was notified of the incident and requested to troubleshoot the valve. They made the decision to rebuild the valve in place. A back pressure plug was installed, the SSV was rebuilt and the well returned to injection.	Recovered product with hand tools and placed into bags for disposal	1 cu. yrd. of lightly contaminated gravel taken to pad 3 for disposal	This information is being provided to ADEC per 18 AAC 75.300

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/4/01	2001-IR-101161	Seawater Injection Plant	Motor Oil	2.00	The bus unit # 06-051 was Idling at the SIP. An employee walked up to the bus and noticed that oil was leaking from the engine compartment. He turned the bus off and repositioned the spill containment device that was under the engine compartment then reported the problem to his supervisor. Appox. 2 gallons of motor oil leaked onto the ground and into the containment.	Recovered material with loader and placed into dump box for disposal at Pad 3	5 cu. yrds. of lightly contaminated snow taken to Pad 3	This information is being provided to ADEC per 18 AAC 75.300
4/1/01	2001-IR-101137	Access Road, L-5 access road	Hydraulic Fluid	2.00	At approximately 1520 hours, 3/31/2001, snowblower #52-239/#53-003 had a hydraulic 1/4" fitting on the pressure overload valve fail on the L-5 access road and spilled approximately 2 gallons of hydraulic fluid. Particular hose contains, at times, 5000 psi of pressure. SRT notified and cleanup completed.	Used loader with scratcher and bucket to pickup contaminated snow and put in dump box for disposal.	Pad 3 East Pit	This information is being provided to ADEC per 18 AAC 75.300
3/22/01	2001-IR-101079	Drill Site 02	Hydraulic Fluid	2.00	A Dowell unit was rigged up at DS-2, well #9, to conduct coil tubing operations when an filter on the hydraulic pump failed resulting in a 2 gallon hydraulic fluid spill. A Dowell CTU employee was priming the N2 pumper prior to open the wellhead swab valve and start running in hole to unload the well. As the employee increased the pressure of the prime pump hydraulic circuit to operating pressure, he noticed a leak from a hydraulic filter and immediately shut down the engine. Secondary containment was fitted underneath the pump engine but not all the released fluid was contained. The Environmental Department was notified of the spill and a Spill Technician was dispatched to the location. An estimated 2 gallons of hydraulic fluid was sprayed on the snow covered pad. An investigation was conducted and it was discovered that the gasket had been blown out of its housing. The filter had been replaced on March 14, 2001 and the unit had not been sent on any job prior to the incident. The filter was not plugged or due for change at the time of the incident. The most probable reason of this failure is that the gasket was not properly installed during the last maintenance. Though it should be noted that as per current procedures, the engine was run after the last maintenance to check the circuits’ integrity and no leak was observed. The Coil Tubing mechanic explained that the charge pump hydraulic circuit, the filter is installed on would not see any pressure unless the charge pump was run and this may have been overlooked during the last maintenance. A Schlumberger Loss Prevention Team convened and a Spill Review meeting was conducted.	Used hand tools to chip hydraulic oil out of frozen snow and gravel.	Pad 3 East Pit	This information is being provided to ADEC per 18 AAC 75.300
5/15/02	2002-IR-223867	Spine Road, Spine Road West of MCC	Motor Oil	2.00	While towing an air compressor a fitting failed resulting in the release of approximately 2 gallons of compressor oil spill on chip seal road surface.	Weed Burners were used to remove contaminate from road surface.	Gross contaminate was picked up with sobent, and diposed of through oily waste steam. Remaining contaminate was burned off with Weed Burnres.	Walt Sandel was contacted, and approval to burn was given.
9/11/02	2002-IR-310585	East Dock, East Dock # 8	Drilling Mud	2.00	Pit watcher was moving drilling mud around in the pits. The mud level was close to the top of the pits when it was noitced that mud was dripping from the underside of the pit module. Drip pans were immediately placed to catch the dripping mud and the mud pits were equalized to lower the level.	Material was shoveled in to cuttings box.	Material was placed into cutting box to be disposed of.	Notifications were made to Walt Sandel of ADEC, ADNR, NSB.
7/21/02	2002-IR-274998	Drill Site 07, DS #7, well #29	Seawater	2.00	While pressure testing a drilling tool, a rupture disk burst.	Recovered material with Bobcat loader and placed into dump box for disposal.	3 cubic yards of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies.
7/8/02	2002-IR-260381	Pad 10, Pad 10 MEG Storage Tank area	MEG	2.00	An Alaska West delivery tanker had finished off-loading MEG into the Pad 10 MEG storage tank. Residual fluid from the hose connection at the tanker piping maniflod was drained into a bucket. Whlie moving the bucket form beneath the tanker, the technician lost his grip on the bucket and it slipped from his hands resulting in 2 gallons of MEG on the ground. The spill was reported and the gravel has been cleaned.	Recovered material with absorbents and hand tools.	1 cubic yard of material taken to Pad 3 for disposal.	Immediate notifications made to the appropriate agencies.
3/1/03	2003-IR-450239	Drill Site Maintenance, Drill Site Maintainance BLDG.	Sewage	2.00	SMALL AMOUNT OF SEWAGE WENT TO GRAVEL PAD	Ice and snow were chipped up and put in to oily waste bags for disposal.	Material was taken to T Pad for disposal.	Immediate notifications made to the appropriate agencies.
4/6/03	2003-IR-479023	Drill Site 15, DS-15 Relief pit	Crude Oil	2.00	At approximately 21:00 hours a flange began to leak at 1400 PSI while pressure testing the manifold header piping with gas after the DS-15 shutdown work had been completed. The decision was made to de-pressure the manifold header piping through the test separator, which was already de-pressured due to previous work. When the manifold piping pressure reached 1000 PSI, the operator controlling the P43 valve was asked to close the valve so the test separator pressure could be equalized with the manifold header piping and drain valve could be opened. With the P43 closed the test separator began to pressure up. At approximately 300 PSI, the person watching the relief pit tank noticed what appeared to be a gas/oil mist coming from the tank vent. The operator subsequently shut the 4” manual vent valve from the test separator to the relief pit tank, which stopped the gas/oil mist to the pit. It was determined that the P43, while indicating closed both on the manual controller and on the valve stem indicator was not shutting off the flow of gas to the relief pit tank. Drill Site Test Separator de-pressuring procedures were being followed.	Picked up material with hand tools and put into dump box. Wiped down tank.	Material was taken to G&I for disposal.	Immediate notifications were made to the proper agencies.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/27/02	2002-IR-192018	Well Pad V, V-100	Seawater	2.00	spill noticed and called in by Wells Group (Anna Dube) Source/cause unknown 3' diameter area around well 100	All of the contaminated snow and gravel has been removed fromt the gravel pad with hand tools and placed in a 55 gallon drum.	Material was determined to be saltwater and will be taken to Pad-3 for disposal.	Sample results determined the product to be saltwater.
1/14/04	2004-IR-747182	Well Pad D, D-04 wellhouse, GC1	Crude Oil	2.00	Crude oil leaked out of the IA of well D-04 through a loose gauge. The gauge was only hand tight. D-04 had a hydrate plug in the outer annulus. A Slickline unit (HES 70137) was attempting to clear the plug. The work prior to the leak is shown below. The last unit pulled off the well at 18:30 on 1/13/04. The leak was discovered by the operator the following morning.	All released fluids were recovered with sorbent material and placed into oily waste bags for transport to an approved disposal facility.	The contaminated sorbents have been taken to an approved North Slope Borough oily waste dumpster.	Initial reporting of this release occured on 1/16/04.
1/28/07	2007-IR-2133747	Drill Site 14, 14-26 Well house, FS3	Diesel	2.00	Loose JIC fitting on IA needle valve	Hand tools were used to remove contaminated material.	Material was brought to G&I for diposal.	Cellar has been identified for well cellar clean up.
3/23/01	2001-IR-101101	Niakuk	Crude Oil	2.00	While in the process of removing the de-pressured flow line on NK-07, two gals of oil splashed over the half drum staged to collect the liquids. The flow line had an estimated 15 gals of oil residue left after circulating lift gas back to production for the purpose of sweeping out liquids. During the pre-job safety meeting the possibility of liquids being in the line was discussed. The plan for containment was as follows: secure the flow line with the crane, place a dike and half drum on the downcomer truck valve, place a small dike and bucket under the lateral valve flange, un-bolt the lateral flange, raise the lateral side of the flow line, and drain liquids to the half drum to the downcomer truck valve. What occurred is as followed; a 4 foot square spill dike and half drum was under the downcomer truck valve, a half drum under the lateral, the crane and straps were resting on the line but not connected to the line, the lateral valve flange studs were removed, the flange and line fell two feet (a vsm was twenty feet away) causing the liquids in the line to rush out the end of the line splashing out of the bucket. The flow line was removed and SRT cleaned up the leaked oil.	Used hand tools to chip crude out of snow, ice and gravel around flow line.	Pad 3 East Pit	This information provided to ADEC per 18 AAC 75.300
6/23/01	2001-IR-101698	Access Road	Diesel	2.00	Spill on shoulder of roadway (Endicott road across from Vern Lake) extending to tundra discovered by passerby. Reported to SRT at 13:15 on 6/23/2001.	Shovel contaminated sand and gravel into oily waste bags.	Pad 3 West Pit	This information provided to ADEC per 18 AAC 75.300
2/22/02	2002-IR-171353	Drill Site 15, DS#15-29	Drilling Mud	2.00	While circulating mud during a wiper trip, the CT inlet swivel valve failed with the housing stripping off from the shaft. The reel house wall is 1 foot from the valve housing and restrained its travel after parting. About 1 bbl of Flo-Pro mud leaked into the reel house catch basin with about 1 gal leaking out via the door onto the pad. Fortunately, a Peak Vac truck was in the vicinity of the spill and it immediately mopped up the spill. The reel house was subsequently cleaned-up. The ACS Spill Technician and HSE Advisor were contacted for follow-up and investigations. The primary cause of the incident was the failure of the 10,000 psi rated CT swivel valve. The valve was installed on 02/01/2002. A contributing factor to the spill, was the lack of a drip edge on the reel house door to act as a secondary containment in the event of a leak in the reel house.	Peak Vac truck sucked up the leaked (Class II) mud and disposed it at the G&I facility.	G&I facility.	Verbal notifcation was made to Walt Sandel of ADEC
3/2/07	2007-IR-2174355	PM-2, P2-50 wellhouse, GPMA	Diesel	2.00	Upon a daily check of P2-50, a small leak from a 1/2" needle valve packing on the I/A flange was discovered. Needle valve was replaced and material was cleaned up by SRT.	Hand tools were used to recover the contaminated gravel.	Contaminated gravel was taken to G&I for class 2 disposal.	This material is a mixture of diesel & crude oil.
4/4/06	2006-IR-1787947	Drill Site 01, Near the access road to the back side of DS-1manifold building directly behind well 18, FS1/SIP/STP	Corrosion Inhibitor	2.00	Approximately 2 gal of corrosion inhibitor leaked from the lateral corrosion delivery line on DS 1-18 to the tundra impoundment adjacent to the reserve pit (under the flowline). The leak occurred at a tubing union that wasn't completely tight. The employee making up the union was not sure whether or not he had gap tested the fitting before the line was pressured up.	Shovels were used to recover the contaminated snow. A chain saw was used to cut out a block of ice under the snow to complete the clean up.	Contaminated snow and ice will be disposed at T-pad.	The corrosion inhibitor did not reach the tundra.
9/11/06	2006-IR-1977014	Drill Site L2, L2-21 from back of the wellhouse to the northwest to the tundra., GPMA	Crude Oil	2.00	While opening the well up, a needle valve was inadvetantly left open. The well had 1600 psi and had misted out of the needle valve before it could be shut. Crew shut well in and shut the needle valve. Then contacted the appropriate parties.	Bobcat and dump box were usede to remove contaminated gravel. Absorbent was used to remove contaminate from piping, as well as water surface in reserve pit.	Contaminated material went to G&I for disposal. Absorbent went to oily waste stream.	Tom DeRuyter of ADEC was notified of release.
7/18/07	2007-IR-2340795	GC-1 Pad, GC 1 Pad F-2, GC1	Corrosion Inhibitor	2.00	During routine inspections, a Pad Operator discovered corrosion inhibitor spill that overfilled the drip-pan and migrated into the well cellar. It appears there was a failure at the sko flo metering valve base-plate O-ring.	Hand tools were used to recover the contaminated gravel.	Contaminated gravel will be taken to Pad-3 for disposal.	Initial verbal notification was made 7/18/07

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/2/03	2003-IR-407077	L-4, L-4 # 12	Crude Oil	2.00	While performing hot oil operations on L4-12, hot oil unit operator shutdown unit while drillsite operator switched valves inside manifold building, leaving the hot oil unit open to an external tank. The hot oil operator opened the tank return valve to allow for fluid expansion. While hot oil unit was shutdown, the mission pump was left partially engaged. The operator did not double block suction valve per procedure. Upon recommencing pump operations, tank high level alarms went off. Operator shutdow pumping operations and then did a visual inspection. Upon visual inspection, 20 gallons of crude/methanol was found to have overflowed through the tank vent tubes.	Loader, and dump box were used to remove contaminated material.	Material was brought G&I for disposal.	Notifications were mak to all agencies.
11/2/04	2004-IR-1113648	Drill Site 16, DS 16 Manifold Bldg., FS2/COTU	Methanol	2.00	While pumping methanol into chemical distribution system to flush the tubing lines, a 3/4 in valve leaked at the stem packing.	Hand tools were used to remove material.	Sorbents used were brought to Hazwaste. Gravel was tested for flash, and was >140, and disposed fo at Pad 3. Snow recovered will be melted down and go to Benificial reuse.	Agencies were notified of the release.
12/30/06	2006-IR-2104470	Drill Site 01, FS-1, Drill Site 01 module 4901 manifold bldg., FS1/SIP/STP	Corrosion Inhibitor	2.00	Night Operator found a small leak coming from the chemical pump, which had on days been repaired, while making his rounds. Operator shut off the pump and completed energy isolation.	Absorbents were used to remove contaminated fluids.	Absorbents went to oily waste for disposal.	All agencies were notified of release.
7/13/04	2004-IR-975680	Pad 10, Pad 10 Loading Area, Non Process Area	Methanol	2.00	While preparing to offload methanol from a line truck employee removed cap from hose and was sprayed with methanol because a rock was lodged in the the drylok mechanism. Employee was wearing proper ppe. Approximately two gallons of methanol spilled into a lined containment area. SRT was notified.	Contaminated gravel was remove with hand tool's.	Gravel will be washed, sampled, and disposed of at pad 3.	Notifications were made to agencies.
7/13/02	2002-IR-264878	Drill Site 05, DS 5 # 5	Diesel	2.00	While preparing to send returns to the flowline, diesel spilled from the upper flange of the S-riser on well 5-5. The CTU crew was preparing to send returns down the flowline. There was zero pressure on the tree and 700 psig on the flowline. When the wing valve was opened, diesel sprayed from the downstream flange of the wing valve. The valve was immediately closed and the spill stopped. Containment pits and sorbents were used to contail the fluid. The Spill Report Hot Line was called. A well-support crew was dispatched to repair the flange prior to continuing with the CTU work. This is a preliminary report only.	Contaminated material was removed by hand tools.	Material was brought to Tpad	This is the second,and Final report.
2/7/07	2007-IR-2148137	Drill Site 14, Drill site 14 well 31, FS3	Methanol	2.00	we had rigged up a methanol pump to pump into a frozen flowline. The high pressure hose had some ice obstructing flow. It was taken inside to thaw. Another hose was used, the check valve failed to hold and methanol leaked onto the well house floor. It waas contained with absorbant pads and cleaned up.	Absobent pads were used to recover most of the spill. contaminated snow was recovered with hand tools and put into a drum to be melted and reused. the contaminated gravel was recovered with hand tools and placed into a bag for disposal.	The absorbants and contaminated gravel will be disposed as Hazardous waste. The comtaminated snow will be melted down and reused as freeze protection.	Immediate notifications were made.
4/26/06	2006-IR-1811997	Lisburne Production Center, LPC module 4954, GPMA	Sulfuric Acid	2.00	This is preliminary information: One cell in a string of cells failed (probably an internal short), causing the case to break apart and electrolite to spill on the battery room floor.	The spilled acid was neutralized and recovered with absorbent material.	Contaminated absorent was taken to the Hazardous Waste building for Haz-Waste disposal.	Immediate notifications were made.
11/22/06	2006-IR-2060271	Central Gas Facility, CGF skid 4973 battery room, CGF/CCP	Hydrochloric Acid (HCL)	2.00	While moving batteries from the pallet into the 4973 battery room, a battery slipped from the cart cracking the corner of the jar. 2 gallons of hydrochloric acid leaked from the jar into the containment of the battery room. All acid was emediatly cleaned up and disposed of as per procedure.	Acid neutralizer followed by adsobent granuals.	Contaminated materail was brought to The hazwaste coordiator to be shipped as Hazwaste.	Agencies were notified of release.
4/4/05	2005-IR-1309323	Flow Station 3, Outside of 4910, FS3	Corrosion Inhibitor	2.00	When evacuating the fill line after filling FS3's chemical storage tank, 2 gallons spilled out tank vent and onto the snow below.	Hand tools were used to recover the contaminated snow.	Contaminated snow will be disposed as hazardous waste.	Immediate notifications were made.
6/2/05	2005-IR-1397160	West Beach, West Beach 03, Non Process Area	Diesel	2.00	Coiled tubing unit was bleeding gas to a VE tank and vapors carried liquid out the top. Material went off pad and onto the tundra.	Hand tools were used to recover the contaminated snow over the tundra area and a bobcat was used to recover the contaminated area on the pad. All the material was placed in a dump box for disposal.	Contaminated material was taken to G&I for disposal.	Immediate notifications were made.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/2/05	2005-IR-1350827	Drill Site 17, DS-12 East Reserve pit, FS2/COTU	Corrosion Inhibitor	2.00	Employee discovered corrosion inhibitor under snow. A large amount of heavy snow accumulated around a chemical line that was attached to a flow line, as the flowline moved the heavy snow did not allows the chemical line to move in tandem so the fitting at valve was stressed and began to leak slightly.	Hand tools were used to recover the contaminated snow and place into oily waste bags for disposal.	Contaminated snow was taken to T-Pad for disposal.	Immediate notifications were made.
10/2/07	2007-IR-2427996	Main Construction Camp (MCC), Rear parking area at MCC. Adjacent to Wing 8., Non Process Area	Transmission Fluid	2.00	At 21:35 a call was made to emergency services advising of a truck on fire in the rear parking lot of MCC. Security arrived on the scene and staged fire extinguishers, then waited for the PBFD. Near by trucks were moved by a bystander, but no attempts were made to extinguish the fire. The PBFD responded and reported that the fire was ¿under control¿ at 21:49. Requests were made by the Chief for an electrician and SRT. The PBFD Chiefs returned to their quarters at 22:25. The truck was left on the scene. The cause of the fire is unknown.	Acid was neturalized, and all engine fluid's were scraped up with a loader. and dump box.	Matreial was brouthg to pad 3 for disposal.	Agencies were notified of release.
1/7/05	2005-IR-1200201	Flow Station 3, Outside module 4916 FS-3, FS3	Natural Gas Liquid (NGL)	2.00	liquids backed into 50# fuel gas system from IP separator. Please see attachment for full description.	Water/NGL mixture was cleaned up with shovels.	Material was brought to G&I for disposal	Agencies were notified of release.
7/21/07	2007-IR-2343741	MOWF Stores, MOWF Stores Yellow Building, Non Process Area	Emulsion Breaker	2.00	The Special Projects Crew was removing demo and out-of-service equipment and piping. After breaking the seal on one of the valves, a blockage of solidified material released and 2 gallons of emulsion breaker spilled into secondary containment.	Absorbent pads were used to recover the spilled material.	Absorbent pads were disposed as oily waste.	Immediate notification was made.
8/26/02	2002-IR-296909	Drill Site 05, DS05 @ test separator relief pit	Crude Oil	2.00	DS-5 Test Separator was being depressured to prep for a choke change. The vent line to the relief pit was opened and the back-pressure control valve was given a manual signal to come off seat. The valve snapped fully open instead of throttling up. The snap opening resulted in a momentary pressure burp into the vent line which carried 2 gals of crude out to line and into the pit and adjacent area.	Contaminated gravel was recovered with Super Sucker and hand tools. Impacted tundra was insitu burned with persmission of ADEC.	9 cubic yards of material taken to G&I for diposal.	Initially reported on 8/26/02
9/27/01	2001-IR-120351	Access Road, Lake Collen access pad	Hydraulic Fluid	2.00	2 gallon hydraulic oil spill discoverd at Collen Lake from an unknown source.	Recovered product with loader and placed into dump box for disposal at Pad 3.	1 cu. yrd of lightly contaminated gravel taken to Pad 3 for disposal.	Inspecting possible sources.
3/28/04	2004-IR-847871	Flow Station 1, Under the Aux. STV horizontal flare tip., FS1/SIP/STP	Natural Gas Liquid (NGL)	2.00	Noticed a small flame on the ice under the STV Aux. flare. Further investigation determined that a flammable liquid was dripping to the area under the flare and was burning. The automatic dump valves, heat trace and flow lines were repaired after previous 2/26/04 incident. The problem now is due to dips in the flare header due to settling. The liquids built up in the flare piping and carried out the flare tip burning	No clean up actions required, material burned away.	None	Notifications were made.
1/3/05	2005-IR-1195184	Drill Site 12, DS 12 # 6, FS1/SIP/STP	Corrosion Inhibitor	2.00	At approximately 9:00 PM the drillsite 12 operator identified a small release of corrosion Inhibitor from the chemical injection system inside the wellhouse at well number 6. The operator closed the chemical supply to the well and SRT was notified. After closer inspection it has been determined that the chemical was escaping through a small hole in a straight run of tubing. There are no signs of external damage to tubing. The tubing has been collected and will be sent out for failure analysis.	Well house floor and flowline were wiped down with sorbents. Contaminated gravel under well house was removed with a super sucker.	Sorbent went to oily waste, gravel will be tested, and if the flash is greater then 140 it will be disposed of at Pad 3.	Agencies were notified.
2/9/93	1993-IR-89883	Well Pad B	Hydraulic Fluid	2.00	Hydraulic hose failure.		Materials were taken to ball mill for injection.	Hydraulic hose failure.
7/15/00	2000-IR-95116	Spine Road	Hydraulic Fluid	2.00	When operator folded down the hydraulic ramp on the rear of the loboy to unload a compactor the rear hose ruptured losing 2to3 gallons of hydraulic fluid	Gravel was cleaned up using a bobcat, dump truck and hand tools.	Material was taken to Pad-3 disposal facility.	none
8/8/04	2004-IR-1007410	West Gas Injection, WGI-03, Non Process Area	Hydraulic Fluid	2.00	An o-ring failed on the SSV barrel and leaked hydraulic fluid into the well cellar. The SSV went closed and S/I the well.	Super Sucker was used to remove contaminated gravel from Cellar.	Material was brought to G&I for disposal.	
4/23/07	2007-IR-2240266	Hot Water Plant, Hot Water Plant, Non Process Area	Drilling Mud	2.00	At approximately 0712 hrs the Hot Water Plant operator noticed some brown fluid leaking out from under the HWP at the man door landing. It appears to be coming from in between the old floor and the new one that was installed. Notifications were made and SRT responded a VECO Vac-truck was dispatched and will try to suck out the fluid between the floors. Further snow removal and inspection of the flooring should find the source of the spill. STR has reported this as a spill: but said that it was just a precautionary step and the report will be retracted if the release turns out to be a leak.	Free liquids were sorbed up. Snow was moved by hand shovels and contaminated snow shoveled up and placed in oily waste bags.	Sorbents were sent to oily waste for disposal.Because the fluids were the same as the sump fluids which were approved for disposal at Pad-3. The snow was sent to T-pad storage pad for disposal at Pad -3	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/4/07	2007-IR-2253547	Kuparuk 30-11-13 reserve pit	Hydraulic Fluid	2.00	Hose fitting on mail hyd. line to trimmer head broke.	Absorbant pads were used to recover most of the oil. The stain on the frozen gravel was trimmed with a trimmer and hand tools were used to recover the contaminated gravel and put into oily waste bags for disposal.	Contaminated absorbant pads were disposed as oily waste. The contaminated gravel wast put into a class 1 storage bin where it will be taken to Pad-3 for staorage and future remediation.	
4/1/07	2007-IR-2209898	Well Pad G, WOA well G-18 cellar area, GC1	Crude Oil	2.00	While the G pad operator was making his daily HSE rounds, he noticed well bore fluids spraying out of SSV (surface safety valve) housing. Operator secured the well, notified x5700, and call in the grease crew to correct the problem.	The wellhead was wiped down using rags and absorbent pads. The contaminated gravel was removed using shovels and material was placed into oily waste bags for transport. Oiled well cellar boards were removed and replaced with new boards.	The contaminated gravel will be taken to the Grind & Inject Facility. The contaminated rags, absorbent and well cellar boards were taken to an approved oily waste dumpster.	
1/2/04	2004-IR-732647	Well Pad K, Well K-7 S Riser gauge valve plug blew off, GC1	Crude Oil	2.00	A spill ocurred when a plug blew out of a gauge valve on the well K-7 S Riser	All of the contaminated snow and gravel was removed with heavy equipment and hand tools. The spray on the interior walls of the well house was hand wiped with rags,absorbent pads and cleaning solution.	The contaminated snow and gravel has been taken to Grind and Inject Facility. The contaminated absorbent pads and rags were taken to an approved NSB oily waste dumpster.	
1/22/07	2007-IR-2129323	Fleet Shop, PBOC Fleet Shop Work Rail, Non Process Area	Motor Oil	2.00	On the afternoon of 22 January 2007, at approximately 3:30 pm, BP Grader 59-310 was near the work rail at the Fleet Shop awaiting repair. The grader was idling. Fleet Shop personnel were told that there was a knocking sound coming from the engine. While idling, the grader threw a rod, which went through the engine block, allowing oil to spill onto the starter. This cause an electrical short, which resulted in a fire. An Fleet Shop mechanic noticed the fire, and reported it to the Fleet Shop Foreman, who called the emergency hotline. The EOA Fire Department was notified and responded, and extinguished the fire.	A loader with a scratcher and bucket was used to recover the contaminated snow and ice. A bobcat and trimmer was used to recover the contaminated gravel.	Contaminated snow and icewas taken to T pad for storage and future class 1 disposal. The contaminated gravel was taken to Pad 3 for storage and future remediation.	
3/18/06	2006-IR-1771839	GC-2, Caribou crossing at GC-2 flowline spill site., GC2/SAT	Hydraulic Fluid	2.00	While working with Excavator on Caribou crossing at GC-2 flowline spill a hydraulic line failed causing approximately 2 gallons to spray on gravel, snow and pipes.	The contaminated snow was removed using hand tools and heavy equipment. The flowlines were wiped down with rags and absorbent pads.	The contaminated absorbent material has been taken to an approved NSB oily waste dumpster. The contaminated snow has been taken to the T-pad storage pit.	
7/19/01	2001-IR-71256	Well Pad M, M Pad reservoir gravel pit.	Hydraulic Fluid	2.00	While inspecting Ranko trailer (maxihaul) operator noticed a leak exuding from the 5 stage cylinder that raises the box. Failure was due to the ramp packing around the piston broke causing 2 gallons of hydraulic fluid to leak on M pad. SRT notified and cleaned up spill.	The free standing hydraulic oil was cleaned up with absorbent pads.The contaminated gravel was cleaned up using a loader, dump truck and hand tools.	The contaminated absorbent pads have been placed in an approved oily waste dumpster. The contaminated gravel has been take to Pad-3 disposal facility.	
3/30/06	2006-IR-1780306	CC2A Ball Mill, CC2A Pad, Non Process Area	Crude Oil	2.00	A water truck was working with the snowmelter crew at CC2A and had a hose in the snowmelter tank. There was a miscommunication between snowmelter crew and driver and the driver went to suck hose dry but the hose was in the snowmelter liquid. This caused the truck to suck up oil and water. When the connection was broken, the water and oil mix of approximately 2-gallons of oil and 8-gallons of fresh water spilled onto the snow covered gravel pad.	The contaminated material was removed from the pad using a loader an hand tools.	The material will be placed back into the snowmelter where it spilled from and taken to Flow-2 with the other spill material as initially intended.	
7/13/06	2006-IR-1907818	GC-2, Q-5 FLOWLINE, GC2/SAT	Hydraulic Fluid	2.00	HYDRAULIC FITTING ON WELL Q-5 FAILED, RESULTING IN APPROXIMATELY A GALLON OF HYDRAULIC FLUID RELEASING TO THE PAD AND INTO SECONDARY CONTAINMENT (DRIP PAN).	Shovels were used clean affected gravel. Sorbent and small containment pan was used to capture material after being discovered.	The gravel was taken to the WOA SRT accumulation bin for later disposal at Pad 3. The sorbents were taken to an approved NSB oily waste dumpster.	
5/31/03	2003-IR-525255	Well Pad C, C-28 Wellhouse	Hydraulic Fluid	2.00	The seal on the hydraulic pump for the C-28 surface safety system failed and leaked two gallons of fluid on to the pad.	Most of the released fluid was trapped in ice with some contaminating a minimal amount of gravel. This mixture of ice, gravel and hydraulic fluid was chipped up by hand and placed in oily waste bags for transport to an approved disposal or storage facility.	The contaminated ice was delivered to T-Pad solid waste storage facility. The gravel was taken to approved accumulation bins at Santa Fe Pad.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/18/06	2006-IR-1763112	PBOC, A-wing pboc, Non Process Area	Sewage	2.00	A leak was detected inside the wall at the PBOC A-wing. The wall was cut open to provide access and repair a hole in a urnal drain pipe. An inspection of the building's exterior found that the sawfit of the building was seperating at that location. The area was tented and a heater inserted to facilitate the repair of the structure. When the area warmed up, ice in the joist structure began melting and dripped onto the gravel pad. The heater was removed to allow the liquid to freeze back up for easier clean-up. The event was called into the ADEC Water Division on Mar 18, 2006 (within 24 hours), and to the NPDES Hotline on Mar 29, 2006 (exceeded the verbal 24hour notification requirement).	Contaminated construction materials (plywood, insulation, etc.) was disinfected and disposed in the NSB landfill. Contaminated gravel under the release area will be disinfected with lime.	Contaminated construction materials was disinfected and disposed in the NSB landfill. Lime was used to treat contaminated gravel on site.	
3/12/05	2005-IR-1279398	CPS, GC-2 H Pad Access Road, Non Process Area	Hydraulic Fluid	2.00	While operating a 3rd party rental trencher #1502-0207 from the CONAM Dead Horse shop, The conveyor belt hydraulic line failed leaking 2 gal. of hydraulic fluid to the pad.	The free standing hydraulic oil on the pad was removed with absorbent pads. The contaminated ice surface was then scraped up with hand tools and a loader.	Contaminated snow has been taken to T-Pad storage pit. Contaminated absorbent pads have been taken to an approved NSB oily waste dumpster.	
3/24/04	2004-IR-844690	Well Pad L, L-200, GC2/SAT	Silicon Defoamer	2.00	Employee hooked up pick-up to tripex pump. A 360 walk around was conducted. The jack stand was raised approximately 4¿ but was still in a snow drift. A non-energized air hose, which was buried in a snow drift in front of the tripex pump, was hooked with the jack stand. One end of the air hose was connected to an air compressor and the other end was connected to a pump for injecting defoamer. This knocked over a partial drum of defoamer in the wellhouse spilling 2 gal. from the open vent. The driver noticed the hose and stopped. He tipped the drum back up that was located inside wellhouse L-200 and notified the supervisor, and calling SRT.	Free standing liquid on the gravel was soaked up with absorbent pads. All of the contaminted gravel was removed with hand tools and placed into oily waste bags for disposal.	The contaminated gravel and absorbent pads will be taken to the Hazardous Waste Process Facility for dispocal testing and classification.	
1/21/05	2005-IR-1216444	Well Pad L, L-200, GC2/SAT	Methanol	2.00	L-200 well line was freeze protected with neat methanol and shut-in. Operator entered wellhouse for daily environmental checks and found a JIC fitting on the s-riser leaking into a pan underneath the s-riser. The drip pan had been placed there earlier for secondary containment during chemical injection operations and then left in place. The drip pan had over filled and spilled into the cellar. The operator re-installed the JIC fitting and notified x5700 spill line. The spill tech determined a 2 gallon neat methanol spill had occured and cleaned up the contaminated gravel.	A hand pump was used to recover free standing liquids. Sorbent material and hand tools were used to clean affected frozen gravel and ice.	The free liquids were placed in an SRT accumulation bin for recycle. The gravel to Pad 3 and sorbent material to NSB oily waste dumpster.	
7/19/02	2002-IR-269572	GC-2, GC-2, adjacent to skid 510	Hydraulic Fluid	2.00	A 300 bbl. tanker was working at GC2. During the job the hydraulic fluid in the hydraulic tank expanded when it heated up and overflowed through the vents onto the pad. The truck was taken out of service and repaired. Notifications were made to GC2 rover (security) and SRT.	All contaminated gravel was shoveled into oily waste bags for transportation to an approved disposal site. Absorbent was used to clean contaminated VSM for skid 510. Oily sorbents were placed in oily waste bags for transportation to approved solid waste facility.	All contaminated gravel was taken to T-Pad. All contaminated absorbents were disposed of at the WOA solid waste facility at CSP Pad.	
7/4/03	2003-IR-559422	Well Pad H, H-29 cellar	Crude Oil	2.00	While doing an HSE walkthrough of the well pad, the pad operator discovered a quantity of oil in the cellar. The Spill Hotline and the Well Integrity Engineer were notified.	Some fluids recovered by hand with sorbent materials, remaining fluids and gravel to be removed using super sucker and hand tools.	Sorbent materials placed in oily waste dumpster. Other fluids and gravel will be disposed of at the Grind and Inject facility.	
1/27/06	2006-IR-1703168	CWTF/ CSTF, CWTF, Non Process Area	Diesel	2.00	While pumping operations to empty a water tank the engine driven pump malfunctioned. Diesel fuel filled the oil pan and poured out the dip stick tube and escaped the secondary containment.	Shovels and sorbents were used to clean affected snow and gravel.	The sorbents were taken to an oily waste dumpster and the snow was taken to the SRT accumulation tank for hydrocarbon recycle.	
12/8/05	2005-IR-1648270	Well Pad A, Surface safety valve on A-24 button head grease fitting failure., GC3	Crude Oil	2.00	At about 0840 hours today, (12-08-05), Mike Newman the fill in A and B-Pad Operator, discovered oil spraying from a button head grease fitting on the SSV of A-24 well. Mike closed the master, wing, and SSV valves, and the spray slowly stopped. Mike called PCC, Env. Spill Tech, and the WellPad Lead. The buttonhead grease fitting on the SSV was missing its screw on cap, which allowed oil to spray out of fitting due to a failed ball check valve failure on the fitting. Spill crews initial estimate is 2 gallons of oil were spilled in the wellhouse. Mike did a good job finding the spill early, and handling isolation and notification process well.	Contaminated gravel was removed using hand tools.	Oily absorbent was taken to the NSB oily wast dumpster. Contaminated gravel will be taken to the grind and inject facility.	
5/31/04	2004-IR-920823	VMS Building, VMS/HE barn, Non Process Area	Transmissio n Fluid	2.00	While taking water on 34-002 (water tanker) the driveline yoke bolts broke causing the yoke to separate from the seal allowing a transmission fluid release to the ground. Water leaks from the tanker dripped onto the transmission fluid and migrated to standing water off the pad.	A loader was used to remove contaminated gravel from pad. Sorbent materials were used to clean sheen on standing water.	The contaminated gravel was taken to Pad 3 disposal facility. Sorbents were taken to approved NSB oily waste dumpster.	
9/2/01	2001-IR-113630	Well Pad V, V-pad	Hydraulic Fluid	2.00	A hydraulic hose failed on a B-70 at V-pad during gravel hauling operations.	Shovels were used to clean up affected gravel from Pad.	The material was collected in a accumulation bin at Santa Fe pad and will be taken to Pad 3 disposal facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/7/04	2004-IR-860854	PBOC, PBOC Bullrail, Non Process Area	Diesel	2.00	Pickup truck caught fire while parked at bull rail	The diesel was recovered using sorbents. Then the area was scraped up with a loader and bucket and placed into a dump box for disposal.	The diesel sorbents were disposed as hazardous waste, and the fire water and fire residue was taken to T-pad.	
2/7/02	2002-IR-165195	Well Pad H, On the pad behind well H-17.	Methanol	2.00	The pad operator was making his rounds and discovered a spot of methanol/water beneath the lateral valve on H-17. Upon investigation, it was determined that the leak was coming from the grease fitting of the valve.	Hand tools were used to clean affected gravel and snow.	The snow was taken to a melt bin for recycle and the exempt gravel will be taken to Pad 3 disposal facility.	
11/7/07	2007-IR-2462876	Warm Storage, Trailer storage area adjacent ot COTU and warm storage, Non Process Area	Hydraulic Fluid	2.00	Filter failed when system was energized Tractor unit number 42-010 returned to service was after receiving a filter change and P.M. in the morning of 11/ 07, later that day when an equipment operator attempted to energize the hydraulic system the system filter blew apart, releasing 2 gallons of fluid to the grave pad. After the event it was found that an isolation valve used for servicing the system was left in the closed position when the hydraulic system was energized. The release was cleaned up by SRT and the filter was replaced and isolation valve opened by the fleet shop mechanics. The need to thoroughly inspect every piece of equipment when it returns to services from maintenance to verify that the desired repairs have been done and are complete is being communicated to all operators.	Recovered by using heavy equipment and hand shovels	Contaminated snow and gravel were put in SRT storage bins to be moved to Pad 3 for storage and remediation.	
7/23/04	2004-IR-985799	Drill Site 13, DS-13 WELL 23 INSIDE THE WELLHOUSE CELLUR., FS3	Diesel	2.00	The FMC P.W.I. WELL 23 AT DS-13 HAD A LOOSE ALIGNMENT PIN IN THE TUBING HEAD THAT ALLOWED DIESEL FROM THE I.A. TO RELEASE THROUGH THE ALIGNMENT PIN CAUSING A SPILL.	The well head was cleaned with sorbent pads and the contaminated gravel was removed using a super sucker.	Sorbent pads will be disposed as oily waste and the contaminated gravel will be taken to G&I for disposal.	
7/21/04	2004-IR-1007220	Well Pad L, Well cellar for L-211, GC2/SAT	Crude Oil	2.00	The Field Production Operator discovered a spill, approximately 2 gal., of crude oil in the well cellar for L-211. He reported spill to ext 5700 and notified his supervision. The spill location was inspected by a trained spill technician. The spill was reported to the appropriate agencies. There were no activities at the well at the time the spill was discovered. There had been no recent activities in the well house as confirmed through the well support group. The crude oil was recovered with absorbent materials.	Crude fully recovered with absorbent materials.	The contaminated absorbent material was taken to an approved North Slope Borough oily waste dumpster.	
9/12/01	2001-IR-147419	Spine Road, Spine road	Motor Oil	2.00	A B-70 hauling gravel on spine road had a fuel injector line seperate causing diesel fuel to spray onto the road. The fuel also ran into the oil pan causing it to overflow a mixture of diesel and motor oil.	The spray on the road was bladed into a wind row using a grader. A loader picked up the wind row and placed the contaminated gravel into a dump truck.	Contaminated grave was taken to T-pad storage pit and will be thermally remediated at a later date.	
9/23/03	2003-IR-627799	Well Pad W, W-24 lateral valve.	Methanol	2.00	The wells group was performing a leak detect log on W-24. While pumping on the well, the wing valve leaked-by and pressured up the lateral line, putting pressure against the lateral valve. The stem seal of the lateral valve leaked allowing approximately 2 gallons to leak.	Sorbent material was used to capture free liquids in containment. Hand tools were use to remove contaminated gravel.	The sorbent material and gravel was taken to the BP Waste Coordinator for proper disposal as waste.	
7/18/07	2007-IR-2342147	West Dock Road, West Dock road, by Flow Station 1., Non Process Area	Motor Oil	2.00	A Wells Support employee was driving truck #85048 to C-Pad. When he noticed a mist of oil coming from the engine compartment, he pulled off the road at Pad-10 and shut the engine off. When the hood was opened there was engine oil all over the engine compartment. The employee placed containment under the truck and made notification. The start of the oil trail was approximately three tenths of a mile from where the truck was parked and the dip stick showed ¼ inch of oil on it when it was checked. The driver stated that the he had check the oil that morning and the dip stick showed about a quart low.	Oil was burned off the chip seal on the road using weed burners. Contaminated gravel was removed with hand tools.	Oil on pavement was burned off. The contaminated gravel sent to pad 3 for storage and remediation.	
10/16/01	2001-IR-125541	Well Pad S, S-pad	Methanol	2.00	Per operator- " I was pumping MEOH down S-201 ... when I knocked over a 2 gallon bucket I was using to prime the pump." All material contained on gravel pad and cleaned up	The material was cleaned up with a loader and hand tools and put into a 55 gallon drum for disposal.	The material was taken to the Hazardous Waste shop and will be sent offsite as hazardous waste.	
1/1/07	2007-IR-2111060	Drill Site 09, Drill Site 9, front pad, FS2/COTU	Transmission Fluid	2.00	DS pickup transmission developed leak. Spilled ~2 gallons of transmission fluid on Drill Site pad.	A loader with a scratcher and bucket was used to recover the trail of of transmission fluid on the pad and placed into a dump box for disposal.	The recovered contaminated snow was taken to T-pad for storage and future class 1 injection.	
10/5/02	2002-IR-331536	Drill Site 05, 5-21 SWAB CAP ON WELL HEAD	Crude Oil	2.00	5-21 SWAB-CAP LEAK FOUND (BAD O-RING). DSM REPAIRED IT AND SRT CLEANED IT UP.	Wellhead was wiped down with sorbent, gravel in well cellar was shoveled in to oily waste bags.	Sorbent went to oily waste stream, Gravel from Well cellar was brought to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/19/04	2004-IR-1134425	Well Pad H, H-16, GC2/SAT	Corrosion Inhibitor	2.00	On November 18 a chemical operator identified that the corrosion inhibitor supply to Well pad H well 16 was blocked; this is a well that has been repeatedly blocked in the last few weeks. The Chemical Operator placed a heater on the line in an attempt to get the chemical moving again. The next day the chemical Operator checked the progress of the well and found that the chemical had began to flow however there was a loose fitting that had allowed a small amount if chemical to leave the system. The leak was discovered and at 9:00 SRT and supervision where notified.	Shovels were used to remove affected gravel. Sorbent material was used to clean out drip tray.	The material was taken to the GPB Waste Coordinator for proper determination of disposal.	
7/9/07	2007-IR-2336476	Well Pad M, M-Pad near skid , GC2/SAT	Diesel	2.00	While fueling the diesel tank for the diesel engine that runs the roof coating equipment a faulty fuel filter was found leaking.	Shovels and sorbents were used to recover the diesel in the trailer and on the gravel pad.	The gravel was taken to Pad 3, the sorbents were taken to an approved oily waste dumpster.	
7/7/04	2004-IR-968918	L-4, GPMA, drillsite L4, under module 4934, GPMA	Crude Oil	2.00	Drillsite operator noted approximately two gallons of crude had leaked onto pad from the flush header drain piping outside module 4934 onto the ground under the electrical room. He called x5700 and the Lead DSO to report spill. They found some loose piping upstream of end of line block valve. The piping was depressured and retaped and tightened.	Srt responded and cleaned up absorb, crude and contaminated gravel and insulating blanket within one hour of report.	Gravel went to G&I facility, sorbent and insulation blanket went to oily waste facility.	
4/5/07	2007-IR-2218066	Drill Site 17, Drill Sit 17 on Pad, FS2/COTU	Hydraulic Fluid	2.00	Employee noticed a trail of Hydraulic fluid on the ground after a pass with Blade 400-051. The employee shut down the motor and placed a spill dike under the leak and called his supervisor. His supervisor notified SRT and the proper people in the reporting matrix. The spill was cleaned up by ACS and the road grader was taken for repair where a ruptured hydraulic line was found.	The contaminated snow was scraped up with the use of heavy equipment and hand tools.	The contaminated snow went to T-pad waste storage facility for future class 1 disposal.	
4/3/07	2007-IR-2217898	Main Construction Camp (MCC), GPB, East, MCC bull rail., Non Process Area	Lube Oil	2.00	VEHICLE 8-617 LEAKED APPROX 5 QUARTS OF MOTOR OIL ON MCC PAD	The contaminated snow was recovered with the use of hand tools.	The contaminated snow will go to T-pad waste storage pit for future class I disposal.	
8/1/03	2003-IR-583831	Well Pad X, X-17 Wellhouse	Crude Oil	2.00	While making his rounds, the operator discovered crude oil in the cellar of X-17. He notified the Spill Hotline.	SRT will use absorbents and a vac truck to remove the released fluids.	Recovered fluids will be either recycled or taken to an approved injection facility.	
4/7/07	2007-IR-2219051	Central Gas Facility, Central Gas Facility Loading Ramp, CGF/CCP	Motor Oil	2.00	While employee was driving into CGF, he noticed oil trailing from his vehicle. Vehicle was immediately shut down and investigation showed oil coming from engine compartment.	The contaminated snow was recovered utilizing heavy equipment and hand tools.	The contaminated snow was taken to T-Pad waste storage for future class I disposal.	
4/24/07	2007-IR-2242925	GC-2 Oil Section, GC2 pad under skid 30	Propylene Glycol	2.00	While doing routine rounds operator discovered a small leak of fluids to the gravel pad under the skid that had accumulated in the deluge system P-trap.	Hand tools were used to recover the contaminated snow and ice and placed in oily waste bags for disposal.	Contaminated snow and ice will be taken to T-pad for storage and class 1 disposal.	
2/15/03	2003-IR-437016	Drill Site 14, Drill site 14 emergency generator	Lube Oil	2.00	The emergency generator at DS-14 developed a mechanical problem resulted from lube oil leaking from the engine and 2 gallons spilled under the trailer on to the pad.	Material was removed with a loader, and dump box.	Absorbents disposed of as oily waste. Solids will be taken to T-pad for disposal.	
6/18/06	2006-IR-1874579	Central Compressor Plant, CCP Pad., CGF/CCP	Diesel	2.00	A dewatering pump that was in the process of dewatering a permanent containment vibrated the fuel line nipple loose causing diesel fuel to be released to the gravel pad. Dewatering crew found release during regular use inspection and cleaned up immediately. Material was brought to Pad 3 for to store for future remediation.	Hand tools were used to remove contaminated material.	Contaminated material was brought to Pad 3 for storage until future remediation.	
1/31/06	2006-IR-1707659	West Gas Injection, WGI unlined gravel blowdown pit , Non Process Area	Diesel	2.00	Fluids left in blowdown system from earlier well work that were not completely removed during previously reported spill (WGI 8) were swept out to pit during blowdown for state testing. Refer to 2006-IR-1699886 for initial spill data.	A bobcat trimmer and loader were used to recover the contaminated snow and ice at the bottom of the pit. Hand tools were used to recover the reamining snow.	Contaminated snow and ice was disposed at the grind and inject facility in GPB.	
7/16/07	2007-IR-2338661	Drill Site 15, DS-15 Well-34, FS3	Crude Oil	2.00	Last evening the API Valve Shop had a spill at Well: 15-34. The findings thus far are as follows:The well that was worked on was 15-30. After the tree was tested the tree was bled down thru the lubricator & the lubricator was lifted off the well , leaving the 4" x 7" crossover on the well with fluid at the top of the crossover, at this point the wellhead hands went to get their barrel pump to suck the fluid down below the crossover, at this point the well burped & fluid was released over the top of the crossover. The swab was not closed at this time for fear of trapped pressure in the valve body . Without a companion valve on this well there was no way to drain the fluid out of the well , ideally if there were companion's on all wells you would have a place to drain the well down. There is no indication why the well burped , it could have been trapped body pressure in one of the valves that leaked by, possibly the ssv that is a directional valve, holds one way. In the future no valve should be cycled until the well cap is on but this is allready SOP, & this is not what caused this spill.	Walls, grating and tree wiped down with absorbent pads. Contaminated gravel removed from well cellar with shovels and bags.	Absorbent pads sent to oily waste and the Gravel was sent to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/12/03	2003-IR-646134	Drill Site 01, DS1 Sump Vessel Vent Line Tank, FS1/SIP/STP	Crude Oil	2.00	While venting to sump had liquid carryover to vent line tank. Material mainly contained inside vent line tank with some spray mist escaping from vent tank.	Contaminated material on the pad was removed with hand tools. Material that was on piping, and side of Mod. was wiped off with Chem- Clear, and sobent.	Sorbent went to oily waste, and contaminated gravel went to G&I for disposal.	
10/1/07	2007-IR-2425024	GC-2 Pad, Just entering GC2 Pad from the GC1 and 2 pipeline cut across road., GC2/SAT	Motor Oil	2.00	Oil plug came out of oil pan on pick up.	Shovels were used to clean affected gravel.	The gravel was taken to the SRT accumulation bin and will be take to Pad 3.	
6/10/03	2003-IR-534249	Well Pad W, W-Pad well # 39	Crude Oil	2.00	As the Well Pad Operator was making his daily wellhouse checks, he found the wing valve packing had failed and caused a small 2 gallon spill inside the wellhouse. The Operator called this in immediately to report the leak and then had the grease crew service the valve to stop the leak. This wellhead flows at ~2000 psi and could have led to the large quantity of spilled fluid. The wellhouse was checked the day before as prescribed by our procedures.	Contaminated gravel was shoveled into bags for transport to disposal/storage facility.	The contaminated gravel was taken to the Santa Fe Pad accumulation bin #1.	
9/11/06	2006-IR-1976797	Central Checkpoint, 100 feet south of the Central Checkpoint, Non Process Area	Diesel	2.00	On September 11, 2006 at approximately 1440, a VECO operator had four Airport Rentals light plants loaded on trailer #74131. He was taking the light plants to Santa Fe Pad from Airport Rentals when he stopped at the Central Checkpoint. As the driver started to pull away from the guard shack, the rear most light plant (#12-477) on the trailer rolled off the rear of the trailer. The light plant landed on its side and started to leak diesel fuel out of the fuel tank. Approximately two gallons of diesel was leaked to the road surface. The operator notified dispatch and proper notifications were made. The light plant was stood back up on its wheels using the bed truck and was towed back to VECO Base for repairs. The contaminated material was cleaned up by the EOA Spill Response Team. The light plant suffered damage to a light assembly and the left fender.	A Bobcat and hand tools were used to clean up the contaminated gravel in the road.	Contaminated gravel was taken to Pad 3 for storage and future remediation.	
9/29/06	2006-IR-2020940	Drill Site 06, Drill site 6 manifold , FS3	Crude Oil	2.00	While venting a A/L Meter loop to the out side vent system some NGL was carried over to the outside of the manifold bldg. wall and gravel pad.	Hand tools were used to recover the contaminated gravel and a manlift was used to wipe the side of the module with rags and chem-clear.	Rags were disosed as oily waste and the gravel went to G&I for disposal.	
1/1/02	2002-IR-149482	Spine Road, Spine Road and J-pad	Motor Oil	2.00	Vehicle was traveling from N-pad on Spine Road when loss of power occurred and the driver pulled off onto J-pad to investigate. Found oil coming from oil pan and called VMS and Spill hot line.	A loader with a rake and bucket were used to remove the contaminated oil from the frozen snow covered pad.	Non exempt, non hazardous material was taken to pad 3 disposal facility.	
5/15/04	2004-IR-903833	Well Pad J, J-11 wellhouse, GC2/SAT	Hydraulic Fluid	2.00	The diaphragm of the pressure switch on the J-11 hydraulic system failed allowing hydraulic fluid to weep out of the body of the over-pressure switch. The pump continued to operate, and emptied the supply reservoir. The pump seals were damaged due to operating dry for a period of time.	The contaminated snow and ice in the well cellar was melted down with a heater and sucked up with a vac truck.	Contaminated water/hydraulic oil was taken to Pad-3 Disposal Facility.	
10/4/01	2001-IR-122627	Seawater Injection Plant, Flow Station #1 injection well	Produced Water	2.00	While doing well checks, operator noticed a small drip coming from a JIC fitting cap/needle valve assembly on a blind flange located on the SIP well PWDW-2 injection well flowline.	Recovered product with hand tools and placed into bags for disposal at Pad 3	1 cu. yrd. of lightly contaminated gravel taken to Pad 3 for disposal.	
8/13/02	2002-IR-287751	CWTF/ CSTF, OFF LOADING SITE AT CSTF/WOA	Sewage	2.00	DRIVER DISCONNECTED TRANSFER HOSE BEFORE THE LIQUIDS WERE COMPLETELY EVACUATED.	Contaminated gravel was removed with Super Sucker.	Contaminated gravel was removed and placed in class I containment pit.	
6/21/06	2006-IR-1875764	Flow Station 2, FS-2 Access Road, FS2/COTU	Motor Oil	2.00	Fuel truck driver took attention away from the road, resulting in a vehicle roll over and material release.	Area was boomed off. Free standing fluids were absorbed and sucked up with a Vac-truck. Pond was drained. Residual contaminates were burned off the tundra grass with weed burners.	Fluids were sent to pad 3 for disposal. Sorbents went to oily waste.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/11/04	2004-IR-935644	Drill Site 04, Drill Site 04, well #02, FS2/COTU	Crude Oil	2.00	Employees were conducting a well test on DS-4 well number 4-03 flowing to well 4-02. During shift change an employee was conducting a normal hourly walk-around inspection and noticed a small amount of fluid dripping into the containment under one of the 3" pipe fittings coming off of the down-commer on well 4-02.The test was one hour into a 2 hour test. The employee immediately went to the test unit and informed the operator about the leakage. He then went back out to the connection and was attempting to adjust the pipe support under the connection to releave the pressure when the connection failed releasing an approximate 2 gallons of 70% water crude oil mix to the inside of the well house. From the test unit, the operator could see what was happening outside and immediately shut the unit in minimumizing the spill. The employees contained the spill with spill response materials on the test unit and notified 5700, the Supervisor, HSET and the Pad Operator. After the SRT response had cleared the unit to complete rigging down the 2" 90 deg. connection was removed from service and inspected. It was found to have a failed rubber seal ring inside the union.This connection was removed from service.	Hand tool's and sorbent were used to remove contamination in well house.	Sorbent to oily waste, contaminated gravel went to G&I for disposal.	
3/30/07	2007-IR-2208642	Drill Site 11, DS11-23, FS2/COTU	Diesel	2.00	In preparing to bleed off, SSE failed to trace hose that he attached to the lubricator. Other end of hose was attached to a needle valve that was open and uncapped.When lubricator needle valve was opened, approximately three quarts of diesel was released to ground surface of pad.	A bobcat and dump box was used to recover the contaminated snow and gravel.	Contaminated snow and gravel was taken to G&I for class 2 disposal.	
9/4/06	2006-IR-1964780	Well Pad X, X-08, GC3	Diesel	2.00	The fuel return line on pony motor separated. Causing diesel to pump out of the ¼¿ line.	Contaminated material was cleaned up with a Bobcat, Dump Truck, and Handtools.	All of the contaminated material was taken to Pad 3 for disposal.	
1/16/07	2007-IR-2123227	PM-2, Point Mac 2 - 50, GPMA	Diesel	2.00	Cement crew was headed out to do a cement job w/ a coil unit, on PM2-50. Approaching the causeway, a SLB driver behind the cement van noticed a couple of spots on the road , after the van had past that area, as well as a couple spots on the causeway. They stopped the van and checked the road ahead and didn't see anything continuing. They then checked the van and found some diesel come through the floor. It was also found that the cap was off the fuel tank and was actually forgotten. They stopped the leaking and proceeded to the coil unit, where a few more spots developed. All proper call were made by SWS Safety Coach and SRT determined that it was a 2 gallon spill.	A grader was used to scrape up the comtaminated snow into a berm so a loader and bucket could recover it and place it into a tank for recycle.	Contaminated snow was melted down and sent to GC-2 for recycle.	
2/27/05	2005-IR-1257964	Well Pad Z, Kuparuk State 7-11-12, GC2/SAT	Hydraulic Fluid	2.00	Loader #14-432 and Trimmer #22-514 operating in the reserve pit at Kuparuk State 7-11-12 experienced a hydraulic hose failure and leaked approx. 2 gallons of oil into the reserve pit. SRT notified. Oil cleaned up. SRT took posession for disposal. Due to the high level of awareness and quick shut down action by the operator, the spill volume was reduced.	The contaminated gravel was removed by heavy equipment and hand tools.	The contaminated material was taken to Pad 3 disposal facility.	
4/26/06	2006-IR-1812558	Central Compressor Plant, CCP out side module 4904, CGF/CCP	Sewage	2.00	Heat trace failure on sewer line reulted in line fracture. Crack in the pipe became eveident during line thawing and aprrox. 2 gallons, static raw sewage in line leaked outside of drain line containment.	Hand tools were used to recover the contaminated material.	Contaminated snow and ice will be taken to T-pad for disposal.	
9/10/07	2007-IR-2407077	Warm Storage, Heavy Equipment Warm Storage Bldg. , Non Process Area	Motor Oil	2.00	On September 10, 2007 at approximately 3:00 pm a Fleet shop oilier was transferring used motor oil from a service truck into a used oil container at the warm storage shop. While transferring the oil into the holding tank the hose slid out of the fill hole onto the ground releasing oil.	Shoveled up contaminated gravel and put in bin.	Contaminated gravel sent to pad-3 for storage and remediation.	
5/2/04	2004-IR-888359	Well Pad T, T-pad, GC1	Hydraulic Fluid	2.00	During snow blower operation at T-pad, snow blower #53-007 had an o-ring failure on dorvalve releasing 2 gallons of hydraulic fluid to the pad.	SRT was contacted and Conam was directed to scrape up contaminated snow with a front end loader and deposit at T Pad lined pit.	Material was delivered to the T-Pad solid waste storage area.	
5/18/04	2004-IR-906663	Well Pad Z, in front of well Z-100, GC2/SAT	Diesel	2.00	Mechanic was working on a fuel problem with slickline unit #9 driverside fuel cap loosened. The tank overflowing diesel fuel onto the pad. Pad operator, SRT and management notified. SRT called spill 2 gal.	The contaminated gravel was shoveled into oily waste bags for disposal transportation.	Contaminated gravel will be taken to Pad-3 Disposal Facility.	
9/13/01	2001-IR-147416	Well Pad V, V-pad	Hydraulic Fluid	2.00	While dumping a load of gravel on a side dump gravel hauler, the nut that attaches the plunger inside the hydraulic ram detached causing the ram to part.	Shovels were used to remove contaminated gravel into oily waste bags.	Material was taken to Pad 3 disposal facility for disposal.	
2/26/04	2004-IR-816097	Well Pad R, under slickline unit in front of Well R-14, GC2/SAT	Hydraulic Fluid	2.00	While crew members were conducting their 20 min. walk around, they noticed a hydraulic leak from a hose fitting on side of wire drums. The unit was shut down and fluids isolated to the drums. Upon investigating, it was determined that a hose connection was loose. SRT, and Supervisors notified. Volume determined to be 2 Gal.	The contaminated snow was removed with a loader, dump truck and hand tools.	The contaminated snow has been taken to T-Pad storage pit.	
6/20/03	2003-IR-545115	Well Pad S, S-pad	Hydraulic Fluid	2.00	A front end loader had a hydraulic leak due to a gasket failure. Equipment requires further investigation into gasket failure cause. Looking at more frequent PM's.	All of the contaminated gravel has been removed from the pad with heavy equipment.	Contaminated gravel has been taken to Pad-3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/13/02	2002-IR-202022	Well Pad E	Diesel	2.00	A wireline unit was rigged up at E-Pad, well #25, to run a downhole video log. The crew had been on the well for approximatley 10 hours when diesel was released out of the wireline pack-off. A hot oil pump unit was pumping hot diesel down the tubing to obtain a clear picture of the fish. An Arctic grade grease was being used in the wireline pack-off and the hot diesel began breaking down the grease. This prevented the crew from maintaining a grease seal, thus allowing diesel to be released to the snow covered pad. The leak was secured immediately, the Spill Response Team was notified of the incident and dispatched to location. The Spill Response Technician estimated that approximately 2 gallons of diesel had been released from the pack-off. There were no injuries as a result of this incident.	A loader, dump truck and hand tools were used to clean affected pad area	The exempt material was taken to Pad 3 disposal facility.	
1/26/02	2002-IR-158871	Drill Site 06, Drill Site 6 Pad	Hydraulic Fluid	2.00	Employee was scratching on drill site 6 with a loader and rake. As he backed up to scratch he noticed the oil on the ground. He stopped immediately and contacted his supervisor. SRT was notified and spill was cleaned up. Loader was repaired and hoses inspected for integrity.	Loader with scratcher and bucket as well as sorbents were used to recover contaminated material.	Contaminated material was brought to pad 3 for disposal.	
4/17/02	2002-IR-205422	Drill Site 07	Hydraulic Fluid	2.00	A 950 loader # 238 was working on DS 7 near well # 12. The loader experienced a hose failure causing 2 gallons of hydraulic oil to be spilled on the pad. Security, SRT and the Peak project manager were notified immediately.	Trimmer, Loader,and Dump Box were used to remove contaminated matreial from site.	Contaminated material was brought to Pad 3 for disposal.	
4/20/02	2002-IR-207527	Drill Site 04, DS 4 Reserve Pit	Hydraulic Fluid	2.00	While working on drill site #4 excavating a process storage pit, trimmer M30 experienced a cracked hydraulic hose fitting. The trimmer was shut down and security SRT and Peak project manager were notified. The Trimmer was taken to the equipment shop and repaired, all hoses and connections were checked fro integrity.	Loader, and Dump Box were used to remove contaminated matreial.	Contaminated material was brought to T Pad for disposal.	
12/20/01	2001-IR-146909	Pad 3, Pad #3 yard	Hydraulic Fluid	2.00	The hydraulic hose fitting, on the balderson end of loader #52-235, broke dispensing approximately 2 gallons of hydraulic fluid on pad #3. It appears like the fitting was located in a position that exposed it to excessive movement against the balderson frame.	Recovered material with loader and transported to disposal pit.	4 cu. yrd of material transported to Pad 3 disposal pit.	
10/6/01	2001-IR-122785	Spine Road, Lake Colleen	Hydraulic Fluid	2.00	Mechanic installed a new hydraulic pump on a water truck with the plastic shipping plug still in. The truck went to Lake Colleen to fill with fresh water and when the pump was engaged the plug came out and a 2 gallon hydraulic fluid spill occurred.	Hand tools were used to remove contaminated material.	Contaminated material was brouhgt to pad 3 for disposel.	
7/14/03	2003-IR-567589	Well Pad M, M-17 Reserve Plt	Corrosion Inhibitor	2.00	While preping a flowline forn CUI inspection, an insulation stripping crew noticed a small drip of corrosion inhibitor leaking from a swedgelok tee. They notified the Well Pad Operator and he tightened the swedgelok connection to stop the leak and called the spill into the hotline. The spill technicians responded and cleaned the gravel area where the corrosion inhibitor had contacted the ground. The spill was estimated at two gallons.	All of the contaminated gravel was removed from the reserve pit with shovels and placed in oily waste bags for disposal transportation.	All of the contaminated gravel has been taken to Pad-3.	
5/16/02	2002-IR-225195	L-1, L1-09 well house on the back side	Hydraulic Fluid	2.00	During routine pad inspection hydraulic fluid was noted coming from wellhead ESD drum. The fluid was entrained in the ice around the drum and became more apparent with the recent thaw. The drum is located behind the well house placed on a wooden pallet keeping it off the gravel pad.	Recovered material with hand tools and placed into appropriate container for disposal.	2 cubic yards of material taken to Pad 3 for disposal.	
3/5/02	2002-IR-177932	VMS Building, VMS Pad	Diesel	2.00	90-531 tri-plex pump was returned to the VMS shop yard in the WOA and parked after a job. The night fueler was making his rounds on location and discovered a fuel leak on the unit. The fueler then closed all valves on the pump and stopped the fuel from leaking out of the unit. At that time the fueler notified the night foreman and the equipment was brought into the VMS shop. Night foreman called 5700, and the night 106 dispatcher on the EOA and SRT. The night foreman secured the spill area per SRT.	The contaminated snow was removed from the pad using heavy equipment and hand tools.	The contaminated snow will be melted down and recycled.	
11/17/05	2005-IR-1621030	Well Pad W, Reserve pit at W-pad, GC2/SAT	Hydraulic Fluid	2.00	Hose failure on 56-305	Place spill liner underneath to catch fluid, shovel snow and place in oily waste bag, WOA SRT collected bag for recycling.	The material will be taken to Pad 3 disposal facility.	
4/25/06	2006-IR-1809717	Drill Site 14, DS-14 during reserve pit snow removal, FS3	Lube Oil	2.00	The investigation revealed that the left front wheel bearing failed, broke apart and allowed the wheel seal to cock out of position which allowed the 0W30 oil to spill out of the wheel. The cause of the wheel bearing failure is unknown. The oil in this piece of equipment had been subject to an oil sample analysis which had revealed high iron levels. The recomendation was to change the oil and have it resampled to try and identify the source of the high iron levels. It appears that the wheel bearing could have been the source of the iron in the samples.	A loader was used to recover the contaminated snow and it was placed into a dump box for disposal.	The contaminated snow was taken to T-pad for disposal.	
7/9/06	2006-IR-1900446	Drill Site 13, 13-17 pad in front of well house, on front of well house, FS3	Diesel	2.00	I got trailer from well 13-15 that W/L had been using, I went to 13-17 to bled annulus, when I started to bled I could smell diesel right away and realized that I did not check hose connection on trailed that W/L always for some unknown reason will disconnect. I shut down, called in spill, reconnected hose and finished bleeding annulus.	Contaminated gravel was recovered with a bobcat and put into a dump box for disposal.	Contaminated gravel will be taken to G&I for disposal.	
7/4/04	2004-IR-964127	Drill Site 14, DS-14 across from well #43, FS3	Hydraulic Fluid	2.00	While working at DS-14 loader 52-241 had a hydraulic hose failure leaking 2 gallons of fluid onto the pad.	Contaminated gravel was recovered with loader and place into a dump box for disposal.	Contaminated material was taken to Pad-3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/9/02	2002-IR-165327	L-4, L4 Blowdown Pit.	Crude Oil	2.00	At 11:01 AM a 25% LEL Gas detection was anunciated in the 4934 "mini-module" at Drillsite L4. At approximately 11:10, Drillsite Personnel conducted Operation's first field evaluation of the situation. Depressurization of the Module was initiated, and it was believed that the gas leak would be brought under control. At 12:39 Halon automatically discharged in the Module, and the Fire Department was asked to respond to L4. Depressurization of the process piping continued, with exception of segments which required Module entry. At approximately 12:50, the Assistant Fire Chief and On-scene Comander begin formulating an entry plan designed to depressure the remaining piping and evaluate the leak. The leak was identified and controlled inside the Module by the Fire Department Entry Team at approximately 14:10. The module was ventilated and returned to Operations at approximately 14:25. During the emergency depressurization of the process piping on the drillsite, aproximately 2 gallons of crude oil was misted onto the snow-covered ground surface adjacent to the L4 blowdown vent header.	Recovered matateriall with hand tools and placed into dump box for disposal at Pad 3	8 cu. yrds. of material taken to Pad 3 for disposal.	
3/8/03	2003-IR-454369	Main Construction Camp (MCC), Maxipad access road.	Hydraulic Fluid	2.00	Discovered trail of hydraulic oil on access road to pad.	Recovered material with loader and placed into dump box for disposal at T-pad.	3 cubic yards of material taken to T-pad for disposal.	
8/26/06	2006-IR-1954525	Drill Site 07, 7-4 lateral valve, FS3	Crude Oil	2.00	found stem leaking contained spill,serviced valve.	Super sucker, Bobcat and dump box were used to remove contaminated material.	Contaminated material was brought to G&I for disposal.	
5/23/02	2002-IR-230259	East Dock, East Dock	Hydraulic Fluid	2.00	Backhoe # 64-300 was working out at Eastdock loading material. During the course of the operation the stick cylinder on the backhoe experienced a hose break at the fitting. The machine was taken out of service and back to the Fleet Shop for repair. Security, SRT and Peak project manager were notified.	Recovered material with backhoe and placed into dump box for disposal.	2 cubic yards of material taken to T-pad for disposal.	
10/2/01	2001-IR-121853	Drill Site 01, DS 1-4	Methanol	2.00	CTU #3 had just finished rigging up on DS 1-21. They were filling the lubricator with 50/50 methanol/water in order to pressure test the riser/BOP assembly. As soon as the riser was fluid packed a stream of liquid was noticed flowing from the lubricator. They shut down the pump and rigged back off the well. A needle valve was broken on the riser assembly resulting in the 2 gallons of 50/50 meth/water on the ground. It's believed that the needle valve that was sticking out 3" from the riser had been bumped during the rig down/rig up procedure. This had weakened the threaded connection to the riser and as soon as a few psi of pressure build up in the riser the connection broke loose. It's procedure to check if the valve is closed and capped before rig up. There was no notice of any damage to the valve and threaded connection at the time of the rig up. SRT was called out immediately for clean up and disposal. This incident did not result in any harm to people or damage to the tundra or surrounding water.	Bobcat and dump box were used to remove contaminated gravel.	Contaminated gravel was brought to pad 3 for disposel.	
3/7/05	2005-IR-1272295	Drill Site 14, Drill Site 14, FS3	Transmission Fluid	2.00	2 employees were working at DS 14. The employees had finished a sleeve job in the last few days, and just hooked up heat via elephant trunk to the hooch so they could re-insulate the location. The employees had two trucks in their possession. After hooking up heat, they went to FS 3 to look at an upcoming job while the hooch warmed up. They left in one of their trucks, a pick-up, while the other truck, a VECO crew cab flat bed # 26166, stayed on site, idling. When they returned after about 20 minutes, they noticed that the truck had released fluid onto the ground. They shut down the truck, made the appropriate contacts, and laid down absorb, as well as containment.	Hand tools was used to recover the contaminated snow.	Contaminated snow will be taken to T-Pad for disposal.	
6/8/06	2006-IR-1864995	Drill Site 18, DS-18, FS1/SIP/STP	Crude Oil	2.00	While performing leak detect log, a temporalily loss of grease seal occured. Although a small volume of crude was released it misted over a large surface area 20x25 sq ft. All necessary personnel were notified in an appropriate manner.	SRT to clean up.	Contaminated material was brought to G&I for disposal.	
12/23/03	2003-IR-723658	Well Pad J, J-Pad Test Separator, 59 Module	Crude Oil	2.00	Shortly after 6:00 am, the rupture disk on J-Pad Test Separator failed, the PSV downstream lifted, blowing 1 gal +/- of crude oil out the vent line. A partial shut down at GC1 resulted in a blocked flow. Investigation is on-going.	All of the contaminated snow on the snow covered ice/tundra outside of the relief pit was removed using snowmachines with dump trailers and hand tools.All of the contamintated material inside the relief pit has been removed with heavy equipment and placed in dump trucks for disposal transportation.	The contaminated snow was taken to T-Pad storage pit.	
6/25/02	2002-IR-251376	Drill Site 05, DS05 well 18...inside wellhouse.	Diesel	2.00	Found 5-18 IA needle valve leaking on normal daily rounds. Isolated leak and repaired valve.	Recovered material with hand tools and placed into oily waste bags for disposal at Pad 3.	1 cubic yard of material taken to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/8/07	2007-IR-2185574	BOC Pad, BOC Pad and CPS Pad, Non Process Area	Diesel	2.00	Employee smelled diesel while driving back to CPS, opened hood of CPS Truck 14-683 and saw diesel sprayed over the engine compartment. Called Spill Response (5700). VMS shop found defective rubber gromet between the fuel heater and fuel filter. Replaced grommet and place truck back in serevice.	The contaminated snow was removed using a loader and hand tools.	The snow and diesel will be melted down and recycled.	
4/10/05	2005-IR-1318914	Well Pad M, About 500 Yards from M-Pad on the 24" LDF, GC2/SAT	Crude Oil	2.00	While circulating Gas Lift Gas from M-Pad back to GC-2 during a start up of M-Pad a 3¿ valve attached to the 24¿ LDF (Pipeline) sheared almost off causing a gas release. Release was spotted by the Well Pad Operator at M-Pad. He called and reported the incident to GC-2 and ERT was notified. The LDF was isolated and GC-2 personnel routed the line to the flare and de-pressured it. It Appears that while the LDF was shut down is relaxed in to a position, the 3¿ valve froze in ice. When the pipeline was brought back on line with the gas lift it warmed up and moved causing the valve to shear beings it was froze and could not move.	Shovels were used to remove contaminated snow.	The contaminated snow was taken to CC-2A storage pit.	
3/20/02	2002-IR-188719	Well Pad L, L-Pad at the chemical storage tanks located on skid 514.	Corrosion Inhibitor	2.00	A 2" pipe outlet welded to a horizontal bulk tank developed a crack near the weld. Corrosion inhibitor was loaded for the first time two days prior to the spill discovery. The tank is a new installation and was recently commissioned by Operations. The release started sometime after the tank was loaded with chemical, but it is unknown how long after filling. Many personnel was working in and around the tank but did not notice or smell the clear liquid being released.	All of the contaminated material was cleaned up using hand tools and placed in oily waste bags for disposal.	Contaminated snow and gravel will be taken to Pad-3.	
4/18/07	2007-IR-2232234	Drill Site 02, FS1/SIP/STP	Crude Oil	2.00	A LRS pump crew found crude leaking from the tree cap that had traveled down the tree with ~2 gallons reported in the cellar. The tree cap had been installed by SLB wireline crew on 4-16-07 after running a caliper survey. The wireline crew had tested the tree cap with the available tubing pressure of 200 psi but the leak was either slow enough not to be evident initially or the leak developed afterwards. The SSV and swab valves were both left in the closed position by the wireline upon departing location.	Tree was wiped down. Contaminated snow and gravel removed from well cellar with hand tools.	Sorbents sent to Oily Waste, Snow and Gravel to G&I.	
7/9/02	2002-IR-262883	Pad 3, Pad 3	Diesel	2.00	Pickup number 14-504L leaked 2 gallons of diesel fuel out of the main fuel tank onto the gravel pad. The tank was overfilled due to a mechanical failure of the valve that controls flow from either the day tank in the box or the main fuel tank in the truck. Notifications were made to SRT, Security, Peak Project Manager. The truck was taken out of service and the valve repaired.	Bobcat was used to remove contaminated material from site.	Matreial was brought to Pad 3 west pit for disposal.	
1/28/02	2002-IR-158873	Well Pad K, K-Pad	Diesel	2.00	A delivery nozzle on the fueling truck experienced a failure due to cold weather conditions. The nozzle leaked diesel while into containment when the pump was engaged. Spill was reported immediately. SRT was contacted and spill was cleaned up. Fuel truck was taken to the shop and nozzle replaced.	Contaminated material was removed from snow covered gravel pad using heavy equipment and hand tools.	Contaminated snow will be melted down and recycled.	
11/1/01	2001-IR-130688	Apex Gas Inj Drill Site, AGI Pad on EOA	Hydraulic Fluid	2.00	A 45 ton crane experienced a power steering line failure while working at AGI. Weld holding pin broke on steering ram. This allowed the unit to free steer which caused the hose to stretch and break. The break caused 2 gallons of hydraulic fluid to spill on the pad. The line was replaced and hoses checked for integrity and the machine was put back to work.	Product was picked up with sorbants. Contaminated snow was picked up with Bobcat and dump box.	Contaminated material taken to Pad 3 for disposal.	
7/16/07	2007-IR-2338893	Lisburne Production Center, LPC's Butler building, GPMA	Hydraulic Fluid	2.00	A Wells Support employee went to the LPC Butler building to look for some parts. When he came back to his Box van #50142 he noticed a 3¿ x 3¿ spot of hydraulic oil under the van. He investigated the release and found that the hydraulic filter had broken off. He closed the valve coming from the hydraulic tank to the filter and stopped the leak. The filter was found about ½ mile from where the Box van was parked, it had broken off at the nipple that the filter screws into. Notifications were made and SRT estimated that the release was 2 gallons of hydraulic fluid.	Bobcat and Dump Box were used to pickup and remove contaminated gravel.	Contaminated Gravel sent to Pad 3 for remediation.	
1/9/02	2002-IR-153378	Drill Site 15, Drill Site 15 manifold building	Corrosion Inhibitor	2.00	The Drill Site operator was receiving a routing load of corrosion inhibitor. He noticed what he thought was a problem with the sight glass on the chemical tank not working correctly and shutdown the loading operation. There were two mechanics working on location and requested help with troubleshooting the level indication problem. The mechanics unplugged the sight glass ball check valves and the operator starting taking on more chemical and the tank overflowed. Investigation showed the sight glass ball check valves plugged again and was indicating a false tank level. The chemical truck driver was splashed with corrosion inhibitor when the tank overflowed. The driver went to the medic and was released back to work.	Recovered material with loader and placed into dump box for disposal.	2 cu. yrds of material taken to Pad 3 for disposal.	
3/12/05	2005-IR-1278684	L-1, L1-01 southeast of well house, source unknow, GPMA	Hydraulic Fluid	2.00	A DSM loader was dispatched to clear snow to access a wire line unit at L1-01. During the snow removal process the loader uncovered a reddish brown spot next to a slop trailer south of L1-01. The unit operator reported the spot to the drill site operator. The wire line unit was parked north of the well and had no signs of leaking fluids. There was no other equipment at this location but a triplex was removed sometime during the weather days. Its actual location cannot be confirmed.	Contaminated snow was recovered with a bobcat and placed into a dump box for disposal.	Contaminated snow was taken to T-Pad for disposal.	
7/2/01	2001-IR-144075	West Dock, West Dock #2	Hydraulic Fluid	2.00	Fitting failure on forklift resulted in product being released onto gravel pad.	Recovered with loader and handtools placed into dump box for disposal.	2 cu yrds of material taken to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/24/01	2001-IR-100574	Well Pad G	Motor Oil	2.00	Loader operator began backing from a stopped position and noticed an oil trail in the snow on Pad. He stopped the loader to investigate and noticed motor oil leaking from engine area. He immediately installed a 4' drip liner under the loader and parked over the liner. The rig crew responded and cleaned up less than 2 gallon spill. Loader was put on a lowboy and sent to Peak for determining cause, cleaning and repair.	Rig crew cleaned up all contaminated snow on gravel pad.	Material will be taken to Pad-3 disposal facility.	
10/3/04	2004-IR-1074546	Well Pad V, GC2/SAT	Hydraulic Fluid	2.00	Coil crew was rigged up on V-115 performing well work operations. The job required using manlift 54215 to access the lubricator connection above the BOP stack. After making the connection and in the process of lowering the lift, a crew member noticed a hydraulic fluid leak coming from underneath the unit. The engine was shut down and absorbent was appied to the effected area to minimize the spill. Notification calls were made and SRT responded to location to remediate the area. The 2 gallon spill was was due to a hose failure. Conam transported manlift back to VMS for repairs.	Sorbents were used to clean free liquids. Shovels were used to remove the contaminated snow from the pad.	The material was taken to T-pad storage facility.	
12/15/01	2001-IR-145109	Drill Site 11, DS 11-6	Diesel	2.00	Crew rigged up to DS 11-6 and filled lines with diesel for pressure test. During pressure test the ground man noticed a spray coming from area of check valve. He had pump operator shut down and suck back line. The operator called the Drill Site Operator and his supervisor who notified the GPB Wells Supervisor and Spill Response Technician. Upon futher inspection of the check valve they discovered a broken 1/2" nipple. The Spill Response Technician estimated the fluid loss to be approximately 2 gallons of diesel on the gravel pad. The contaminated gravel was removed and taken to the Grind & Inject Facility for disposal. There were no injuries as a result of this incident.	Recovered material with loader and hand tools. Placed into dump box for disposal at G&I	5 cu. yrds of material taken to G&I for disposal.	
3/8/04	2004-IR-827986	BOC Pad, BOC Loading Ramp, Non Process Area	Motor Oil	2.00	Employee left Box Van 24-358L running all night the night of 7-8 March due to cold weather and problems starting the truck in said weather. He went out in the morning to start his day and noticed that the truck wasn¿t running. He then noticed a large puddle of oil underneath the truck. He notified his supervisor, who made more the appropriate additional notifications. Employee did not have any containment in the truck. Amount was determined to be 2 gallons. Cause is a failed o-ring due to normal wear and tear.	A loader was used to removed the contaminated snow from the Pad.	The material was taken to T-pad storage facility.	
2/15/03	2003-IR-437565	Access Road, GC-1, GC-2 pipeline access road	Hydraulic Fluid	2.00	Field personnel working on the GC-1, GC-2 access road observed a streak of material on the road way and call in to have Spill personnel evaluate. Source of material remains unknown.	A loader with a scatcher scraped up the contaminated snow.	The material was taken to T-pad storage facility.	
12/2/01	2001-IR-140344	PM-2, P2-23 wellhouse shelter/cellar	Diesel	2.00	Bleed valve on well PM2-23 outer annulus discharged diesel due to valve being open for an unknown duration with no cap on the JIC fitting.	SRT removed contaminated gravel with shovels.	Contaminated gravel was brought G&I for disposal.	
3/14/07	2007-IR-2189802	Well Pad K, K-pad Term well A, GC1	Hydraulic Fluid	2.00	While employee was doing a 360 walk around on excavator 307-002 he noticed hydraulic fluid dripping from the right track planetary seal. The employee asks the equipment operator to shut down the excavator and placed a spill dike under the leak. The employee called his supervisor and his supervisor called SRT and the proper people in the reporting matrix.	Contaminated snow was removed using a bobcat, dump truck and hand tools.	The material was taken to the T-Pad Storage Pit.	
6/17/07	2007-IR-2304669	Access Road, FS-1 Access Road behind butler building to first expansion loop, Non Process Area	Motor Oil	2.00	On 06/17/07 at approximately 1925 hours, a spill was reported on the FS-1 Access road. A crew of three VECO employees had picked up their vehicle #26186 from the VECO light duty shop. They verified with the mechanic that it had been repaired and proceeded to drive to the FS-1 Butler building by means of the Oxbow Road. After arriving and loading some materials, the employees left the Butler building parking lot and continued down the FS-1 Access road directly behind them. They drove approximately ¼ mile and stopped at the first expansion loop. The employees parked momentarily to decide where to park and then proceeded to pull forward approximately 20¿. The truck then died and the low oil pressure warning light came on. The employees reported smelling oil but could not identify it. Upon exiting the vehicle they saw a large pool of oil underneath it and could see a trail stretching back the way they had come from. They immediately placed containment underneath the vehicle and used absorb to minimize the amount spreading on the ground. The employees then began bagging excess oil to further prevent release to the road way. As this was happening, an employee from another crew contacted VECO Dispatch and notified them of the situation. SRT responded and decontaminated the area. The oil was found at the beginning of the FS-1 Access road and continued to the first expansion loop. The estimated amount of oil lost is two gallons. The truck was removed from the scene and taken to VECO Light Duty Shop for repair and inspection. It was found that a gasket on the V-Mac fitting had failed. This system operates at high pressure and circulates the engine oil. The Mechanics reported that the truck needed 8 quarts of oil to top off the reservoir. Oil was not found on any other roadways or on the Butler building parking lot.	SRT removed contaminated gravel with equipment. All material was recovered and transported to SRT.	Material will be brought to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/10/06	2006-IR-1902939	U-03 (Water/Wastewater), U-3 SEWAGE HOLDING TANK ON MCC PAD, Non Process Area	Sewage	2.00	AFTER DRIVER COMPLETED OFF LOADING FLUID FROM TRUCK 40-009, DRIVER DRAINED SCRUBBER INTO SEWAGE HOSE. DRIVER NORMALLY DRIVES TRUCK 40-010 AND THE DRIRECTIONAL VALVE ON THE MASPORT PUMP VALVE DIRECTIONAL HANDLE IS THE COMPLETE OPOSITE OF TRUCK 40-009. DRIVER REACHED UP TO PURGE THE FLUID FROM THE HOSE THINKING HE WAS PLACING THE DIRECTIONAL HANDLE IN VACUUM POSITION INSTEAD HE PLACED IT IN THE PRESSURE POSITION. HIS NEXT MOVE HE OPENED THE TANK VALVE TO VACUUM THE FLUIDS INTO TRUCK TANK. INSTEAD THE FLUIDS WERE RELEASED TO THE PAD.	Contaminated Gravel removed from area with hand tools. Area then treated with lime.	Contaminated Grave taken to Pad 3 for disposal.	
7/26/06	2006-IR-1917144	Drill Site 01, DS-1well 18 Wing valve, FS1/SIP/STP	Diesel	2.00	DS-1 well 18 Developed a leak from the stem portion of the valve. The valve was serviced and the leak stopped.	Super Sucker was used to remove contaminated gravel in cellar.	Contaminated material went to G&I for disposal.	
10/25/06	2006-IR-2028606	Pad 10, Pad-10, Non Process Area	Hydraulic Fluid	2.00	A contract hard line crew was on their way to K-Pad Well 11. While in route the lead noticed that the winch line block on the boom was not as tight as it should be. The lead radioed the boom truck operator to pull over on Pad-10 to tighten the winch cable. When the operator stopped, he engaged the PTO and tightened the winch line.It was at this time that the lead noticed the hydraulic fluid coming out from under the cab of truck #07034. The operator disengaged the PTO and placed containment under the truck, notifications were made. The area of the leak was 4x5ft and a mist of hydraulic fluid over a total area of 4'x10'. SRT said the amount released was two gallons.	Hand tools were used to remove contaminated gravel.	Material will be brought to pad 3 for disposal.	
1/23/04	2004-IR-752448	PBU Equipment Fleet Shop, Engine oil at EOA Fleet shop repair rail, Non Process Area	Motor Oil	2.00	Unit # 14-550L parked at the repair rail (EOA Fleet Shop) at 7:00pm Jan 22/04 and left idling because of -40 weather conditions. Sometime during night engine leaked oil. Security was notified at 2:07am Jan. 23/04. Problem turned out to be a leaking rear main seal on the engine.	Hand tools were used to remove contaminated snow.	Material will be brought to T pad for disposal.	
6/5/06	2006-IR-1861311	Well Pad F, F-16, GC1	Hydraulic Fluid	2.00	While pumping N2 during well lift a hydraulic hose failed due to rubbing on the frame causing a 2 gallon spill. Spill prevention was in place, but was too small to capture all the fluid.	Material was cleaned up using handtools.	Material will be taken pad 3 disposal facility.	
9/21/07	2007-IR-2412702	Drill Site 17, DS17 Manifold Bldg., FS2/COTU	Corrosion Inhibitor	2.00	A CI release was identified by the pad operator in the mod at DS-17. The pad operator notified SRT. The release originated from the return line that runs from the chemical tank to the back pressure regulator (BPR). Upon inspection of the return line, an in-line check value was found to be the origin of the release. The internal components of the check valve were eroded by the CI which caused the release.	Contaminate was picked up with sorbents and rags and placed in oily waste bags.	Sorbents and rags will be sent to oily waste.	
5/28/01	2001-IR-101564	Well Pad X	Corrosion Inhibitor	2.00	Approx two gallons of corrosion inhibitor leaked from quick connect fitting. It is unclear why the quick connect was not capped. Small 3 way valve in system may have been in wrong position. Spilled liquid sprayed over area aprox 9 sqr feet.	Hand tools were used to clean up contaminated gravel.	Material was taken to Pad 3 disposal facility.	
5/9/03	2003-IR-505877	Flow Station 1, Flow 1 outside of 4938	Sewage	2.00	Sewage leak from drain pipe	Material recovered with hand tools and placed into container for disposal.	Material will be taken to T-pad for disposal.	
3/13/06	2006-IR-1758485	GC-2, GC-2 Flowline Road Staging Area Ice Pad, GC2/SAT	Propylene Glycol	2.00	A radiator on a dumptruck parked on an ice pad failed an spilled approximately 2-gallons of antifreeze onto the ice pad.	The affected ice pad area was chipped up with hand tools and placed in oily waste bags for disposal transportation.	Material will be taken to T-Pad Storage Pit.	
5/19/07	2007-IR-2268795	Cold Storage Pad/Bldg, Cold Storage Pad, Non Process Area	Lube Oil	2.00	On May 19, 2007, at approximately 5:00 PM a VECO employee was just completing a load trip to the Cold Storage Pad flat bed. While unit 82238 was idling he notices that motor oil was coming from back of the engine. The employee had already place a containment dike under the radiator and front of engine for any other emergency spills. He shut down the engine and placed another duck pond under the engine area leak. It was determine that an oil line around the turbo housing had ruptured. VECO dispatch was called and all other proper notifications were made. It was estimated that approximately two gallons of motor oil had spilled out of the engine. The 16 inch diameter engine oil stained left on the ground was clean up by the VECO employee and bagged and taken off by SRT. It was determine by the oil missing on the dip stick and SRT judgment that approximately two gallons were lost from the engine compartment. This release will be classified as a spill.	Shovels and a front end loader were used to remove contaminated snow from the pad.	The material was taken to T-pad storage pit.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/25/02	2002-IR-296320	Well Pad Z, Well Z-6	Corrosion Inhibitor	2.00	The CIC Pump Crew was performing a corrosion inhibitor treatment at well Z-6. A tanker truck supplies dead crude to the pump unit during this operation. The tanker truck was connected to the pump unit and in the process of filling the internal holding tank when a filter screen became plugged. The tanker driver stopped the fill operation, disconnected from the pump unit and cleaned the fillter screen. When the filter screen was clean, the tanker driver reconnected to the pump unit and communicated to the pump operator that the connection had been reestablished. The pump operator failed to divert crude flow from the holding tank to the pump suction line which caused the holding tank to be over-filled resulting in about 40 gallons of dead crude spilling on the gravel pad.	Super sucker and sorbent materials cleaned affected gravel pad.	The material was taken to T-pad storage pit.	
3/21/02	2002-IR-188726	Well Pad B, B-21	Methanol	2.00	This well was freeze protected on March 17, 2002. Sometime between the 20th and 21st of March, methanol began leaking inside the wellhouse through three closed devices. The S-riser's sample port had a 1/2" Jamesbury ball valve, a 1/2" needle valve and a bleed connection installed. All were in the closed position when the spill was found, but liquid was dripping from the bleeder connection. The Operator that discovered the leak was able to torque the stem of the needle valve another 1/4 turn to stop the leak.	All of the contaminated material was cleaned up using hand tools and placed in oily waste bags for disposal.	Contaminated gravel will be taken to Pad-3.	
10/30/03	2003-IR-663997	L-2, L2 4902 module	Sewage	2.00	valve on holding tank leaked sewage to the gravel pad	Contaminated gravel, snow, and ice were removed with hand tools, and bobcat and dumpbox.	Material was brought to T pad for disposal.	
11/29/03	2003-IR-694043	Access Road, Access road to PM 1	Hydraulic Fluid	2.00	Motor Grader #58-307 experienced a hydraulic hose failure on the access road to PM -1. Approximately 3 gallons spilled onto snow/ice covered pad. SRT notified.	Grader, Bobcat, and dump box were used to remove contaminated material from road.	Material was brought to T Pad for disposal.	
3/1/02	2002-IR-176497	East Dock, East Dock Pad	Hydraulic Fluid	2.00	HCC Crane was extending the downriggers when a hydraulic line connecting to the downrigger broke causing a spill of two gallons of hydraulic fluid to East Dock Pad.	Shovels, and chippers were used to clean up contaminated material.	Material was brought to pad 3 for disposal.	
5/27/02	2002-IR-230244	Main Construction Camp (MCC), BehidMCC on the bull-rail.	Diesel	2.00	The truck was parked behind MCC on the bull-rail at 20:30 on 5/26. When an employee went to get in it on the morning of 5/27 at 06:30 it had leaked diesel from underneath the trucks bed. Spill containment was placed and SRT was called. After investigation it was determined that the straps on the fuel tank had gotten rocks between the tank and the straps holding it and wore a hole in the top of the fuel tank. This is commonly found in older trucks. This truck had over 102,000 miles on it.	Loader and dump box were used to remove contaminated material.	Material was brought to T Pad for disposal.	
5/20/02	2002-IR-226509	Drill Site 04, Beside well house 4-38, on the north west corner.	Hydraulic Fluid	2.00	DS Operator discovered hydraulic fluid spill beside 4-38 well house on morning rounds. Source of spill is unknown and has only shown up with the recent melting.	Bobcat and dump box were used to remove contaminated material.	Material was brought to T Pad for disposal.	
1/10/07	2007-IR-2119176	Drill Site 18, Drill Site 18, FS1/SIP/STP	Motor Oil	2.00	On January 07, 2007 a Cat front end loader # 52-239 was serviced in the Equipment shop this included an oil change, grease job and filters changed. The loader was then moved out to drill site 18 where it was being used by AES. On January 10, 2007 at approximately 2:00 pm AES employees noticed an oil release from the loader. Upon further inspection it was discovered that the oil pan plug had loosened up releasing motor oil on to the ground. Notifications were made and the released cleaned up by AES. The amount released is estimated to be approximately 7 ½ gallons.	Loader and dump box were used to remove contaminated snow.	Material was brought to T pad for disposal.	
3/24/04	2004-IR-845288	Drill Site 16, DS-16, FS2/COTU	Hydraulic Fluid	2.00	Snow Blower #53-013 experienced a failure of the hydraulic filter gasket and leaked approx. 3 quarts of oil onto DS-16 pad. SRT notified. Conam has entered data into their Spill Reduction Initiative data base for further analysis concerning mitigation of spills due to equipment failures. Note: This spill was called in to the NRC (NRC # 716406).	Hand tools were used to remove contaminated snow and ice.	Material was brought to T-pad for disposal.	
9/2/03	2003-IR-609547	Central Checkpoint, Central checkpoint small holding tank.	Sewage	2.00	The sink water was left slowly running in the central checkpoint bathroom. The float in the small holding tank malfunctioned and the pump failed to engage. The water was not pumped into larger holding tank. The small initial tank over flowed about 2 gallons of waste water.	Super Sucker was used too remove contaminated material.	material was brought to Pad 3 for disposal.	
2/18/04	2004-IR-810990	PBOC, PBOC Parking lot, Non Process Area	Motor Oil	2.00	Plugged airfilter caused oil to be pulled up through the manifold.	Hand tools were used to remove contaminated material.	Material was brought to T pad for disposal.	
3/26/04	2004-IR-846928	Drill Site 16, DS#16, FS2/COTU	Hydraulic Fluid	2.00	Loader #52-253 experienced a failure of a hydraulic hose at DS#16 and and leaked approx. 2 gallons of oil onto the pad. Utilized a loader for cleanup, SRT notified. Conam has entered data into their equipment Spill Reduction Initiative data base. Additional analyses will be completed on spills to determine if there are additional mitigative steps that can be taken to reduce the number of spills.	Loader, and dump box were used to remove material.	Material was brought to T Pad for disposal.	
5/17/02	2002-IR-225509	Drill Site 05, in front of well 5-26	Hydraulic Fluid	2.00	found oily gravel in front well 5-26, @ area 4'x5', do not know where or when this spill occured.	Bobcat, and dump box were used to remove material.	Matreial was brought to T Pad for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/12/06	2006-IR-2051070	Field Ops Center (FOC), FOC, Non Process Area	Diesel	2.00	GC2 Field instrument tech box van had it's fuel pump fail and lose system integrity. The trucks fuel system leaked diesel fuel on the ground under the truck. The spill was reported to the spill line, and the WOA spill techs cleaned up the spill and affected area.	The contaminated snow was shoveled into oily waste bags for disposal transportation.	The snow will be melted down and recycled.	
1/27/01	2001-IR-98891	Kuparuk Reservoir	Motor Oil	2.00	Lube truck pulled onto Deadarm Pit pad. After driver came to a stop a leak was noticed. Containment placed under engine with absorbents. Leak stopped, truck removed by lowboy to shop. Houston spill crew removed oil from pad. Waste properly disposed of. Approximately 2 gallons turned over to ACS.	Contaminated snow was shoveled into oily waste bags using hand tools.	Material taken to Pad-3 Disposal Facility.	
3/10/06	2006-IR-1758365	GC-2, GC-2 Pad, GC2/SAT	Diesel	2.00	While fueling a vac truck, the crossover line was frozen and casued the tank to overfill.	The contaminated snow was removed using hand tools.	Material will be melted down and recycled.	
3/8/04	2004-IR-828141	Flow Station 1, Crude loading dock at Flow Station 1, FS1/SIP/STP	Crude Oil	2.00	Overflowed tanker while loading at Flow Station 1	Contaminated snow was recovered with hand tools and placed into oily waste bags. Then placed into drums for disposal.	Material was disposed as hazardous waste.	
4/4/04	2004-IR-857566	Drill Site 01, DS-1 reserve pit, FS1/SIP/STP	Hydraulic Fluid	2.00	Hydraulic hose failure on a loader that was on rent from Airport Rentals. This leak occurred while working at DS-1 performing snow removal tasks. Approximately 2 gals. spilled into the reserve pit of the drill site pad.	Contaminated snow was recovered using a loader and bucket. The material was placed into a dump box for disposal.	Material was taken to T-pad for disposal.	
12/14/03	2003-IR-713682	Central Gas Facility, N.E. Corner of CGF pad. EOA GPB	Hydraulic Fluid	2.00	While clearing snow from the area where VECO Projects' temporary offices had been set up at CGF, the loader operator noticed a dark patch on the ground as he was getting ready to change from the snow bucket he was using, to the forks. When he realized that the substance was oil he immediately shut the loader down, placed a containment under the apparent source of the leak and called his supervisor who in turn called 5104. VECO Safety Inspector arrived at CGF at approximately 13:15 and no one else was onsite. The loader was parked and shut down with a containment under the rear axle. The rear axle and left rear tire (inside surface) were coated with hydraulic fluid and there were several patches and small trails of hyd. Fluid sprayed on that area of the pad. A VECO Mechanic arrived onsite at 13:27 followed by the SRT Crew at 13:30.	The contaminated area was scraped up with a grader and loaded into a dump box for disposal.	Material was taken to T-pad for disposal.	
6/29/03	2003-IR-552565	Drill Site 15, DS-15 well #9	Seawater	2.00	While performing a low pressure test on coil unit # 5, the stripper rubber failed resulting in 2 gallons of 1% KCL water to leak onto the ground. The pressure was bled down and containment was placed down to minimize the spill. All notifcations were made to SRT, BP and SLB. At the time of the spill the supervisor had 1000 psi pressure on the packoff. The stripping rubber had 75 K running feet of use on previous jobs, which were gas wells. The stripper rubber was replaced and inspected for wear.	Material was recovered using hand tools and placed into oily waste bags for disposal.	Material was taken to pad 3 for disposal.	
6/7/03	2003-IR-531453	Fleet Shop, PBOC Fleet Shop Dead Rail	Diesel	2.00	A Tri-Plex Pump, # 90-526, staged at the dead rail, leaked diesel from the top of the filler neck when the snow/ice under the tongue jack melted and allowed the trailer to tilt forward.	Material was recovered with a bobcat and put into a dump box for disposal.	Material was taken to pad 3 for disposal.	
8/21/03	2003-IR-598717	Fleet Shop, Fleet Shop parking lot	Lube Oil	2.00	Loader #52-243 was towed from out of the Fleet Shop following transmission removal. While it was being towed, the rear pinion gear walked forward from the seal allowing rear gear lube to leak in a trail from the front of the shop towards the "dead rail". The rear pinion is held in place by the transmission. When the transmission is removed, the rear axle should be elevated while towing backwards to prevent the wheels, and the axles from turning, which causes the pinion to walk from the housing, away from the seal, thereby causeing gear lube to leak.	Contaminated material was recovered using a bobcat and dump box.	Material was taken to pad-3 for disposal.	
12/21/05	2005-IR-1666611	Drill Site 07, DS-07 well 28, FS3	Diesel	2.00	Day shift operator discovered an oil mist near well 07-28 during the daylight hours on Dec. 21. It appears oil misted from the hatch on top of the tank while depressuring the annulus.	Loader and dump box were used to remove contaminated material.	Material was brought to G&I for disposal.	
2/15/05	2005-IR-1244239	Drill Site 11, DS11 Well#27, FS2/COTU	Crude Oil	2.00	Crew topped up and shut in swab valve. There was minimmal positive pressure on well. Primary and secondary bleed ports were open and a whisper of gas was present. The union at the wellhead was undone and lubricator was unstabbed. As the lubricator came up a small amout of crude escaped.	Loader and dumbox were used to remove contaminated material.	Material was brought to G&I for disposal.	
8/1/01	2001-IR-84718	Drill Site 05, DS5 next to well 5-07	Crude Oil	2.00	While bleeding annulus's at DS5 into slop trailer the bleed stream picked up tank fluids and carried them into the slop trailer containment tray, then when moving trailer oil floating on water in tray splashed over onto gravel pad.	Bobcat and dump box were used to remove contaminated gravel.	Contaminated gravel was brought to pad 3.	
6/1/04	2004-IR-924063	Drill Site 13, EOA at DS-13 Well 6, FS3	Diesel	2.00	While completing a full hard-line set-up at DS-13 for a future coil job. The wells group was packing the completed line when a flow was noticed from an open end "T" on a hard-line tray. Despite following procedures an open end was missed on a hard-line tray between well 6 and the tank farm.	Contaminated gravel was removed with a bobcat and dumpbox.	Material was taken to Pad-3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/13/06	2006-IR-1832098	Niakuk Pad, Niakuk Pad under the 4906 outside drain valve connection, GPMA	Produced Water	2.00	The Niakuk test separator outside 2" Rockwell drain valve was founding dripping produced water from the base plate. The line is heat trace and insulated but it appears the valve froze at some point during the winter. Once the valve thawed it started to leak. SRT responded to clean up the area noting this was the second time this type spill occurred at this location.	Hand tool's were used to remove contaminated material.	Material was brought to G&I for disposal.	
3/3/04	2004-IR-823214	Drill Site 02, Drill Site #2, FS1/SIP/STP	Hydraulic Fluid	2.00	Loader #52-251 leaked 1 gallon of hydraulic oil following a failure of a hydraulic hose at Drill Site #2. Spill was cleaned up and bagged. SRT notified.	Material was recovered with a loader and dump box.	Material was taken to T-pad for disposal.	
9/10/02	2002-IR-309114	Drill Site 09, DS 9	Diesel	2.00	A Slickline unit was rigging up on well 37. Two crew members traveled down the pad to look for a tri-plex pump. They were unable to locate a pump but did spot two bleed trailers on their way back to the unit. The first trailer was full, but the second one was empty. They decided to move the second trailer from well 11 to well 37. A complete walk around was not performed on the bleed trailer. The bleed hose appeared to be wrapped on the bleed trailer, but was connected to the outer annulus. When they pulled away from the area with the trailer in tow, the hose pulled against the needle valve screwed into the outer annulus which broke at the threads. This allowed the fluid packed outer annulus to vent to atmosphere. When the crew pulled ahead they heard a noise and stopped to inspect. They realized it was a release of pressure in the well house and immediately left the area. They contacted their operator who in turn notified his supervisor, drill site operator (DSO), and Wells Group representative. Two slickline crew members and the DSO donned air packs and returned to the well. All parties waited outside until the pressure was bled off and safe to enter. The DSO went in and shut the gate valve on the outer annulus, while the slickline crew members waited outside the well house. Spill response was notified and was to estimate the spill volume during daylight hours.	Bobcat and dump box were used to remove material.	Matreial was brought to G&I for disposal.	
2/15/01	2001-IR-100533	GC-2 Pad	MEG	2.00	During the Phase 3 blow on 02/15/01, the extreme wind velocity and direction was such that the location of skid 491 deluge drain p-trap/overspill outlet piping was oriented for the wind to "pull" the liquid seal fluid out of the p-trap goose neck, discharging onto the pad.	Loader and shovels were used to remove contaminated snow and gravel.	Non Hazardous material was taken to Pad3	
1/18/04	2004-IR-747851	Fleet Shop, PBOC Fleet Shop Yard, Non Process Area	Hydraulic Fluid	2.00	Crane #46-453 had broken a hydraulic hose on 1/16 at WGI. It had been brought to the fleet shop and had been staged in the yard awaiting repairs. A liner had been placed to catch any additional leaks that may occurr. It is believed that high wind conditions caused the residual fluid droplets to blow clear of the liner. SRT notified.	Contaminated material was recovered with a loader and dump box.	Materail was taken to T-pad for disposal	
4/15/06	2006-IR-1798652	Well Pad A, A-Pad, GC3	Hydraulic Fluid	2.00	Hydrualic hose failure on loader 52-306	A loader and hand tools were used to remove contaminated snow.	The snow was taken to T-pad storage pit.	
4/14/03	2003-IR-484825	Drill Site 13, Drill site 13 Well 20	Diesel	2.00	The threads on a JIC fitting off the 9 5/8" casing developed a leak. The operator isolated the valve and noticed the threads did not have thread sealant. Operator applied teflon tape to threads. Approximately 2 gallons of diesel was spilled to the gravel.	Most of the contaminated gravel was removed with shovels and placed into oily waste bags for disposal.	Material was taken to G&I for disposal.	
7/2/03	2003-IR-558946	Drill Site 15, Drill site 15, Well 36	Crude Oil	2.00	Two bleed hoses were connected in series from OA of well to bleed trailer. The connection between the two hoses were not properly fitted and leaked when operator started bleeding down annulus. About 2 gallons spilled on the pad covering a 4ftX4ft. area.	Contaminated gravel was recovered with hand tools and placed into oily waste bags for disposal.	Material was taken to G&I for disposal.	
6/28/03	2003-IR-551784	Drill Site 14, DS 14-11	Crude Oil	2.00	Employees were sent to DS 14-11 to prep the Surface Safety Valve (SSV) for a bonnet inspection. Employees began to back off the SSV Barrel and heard the actuator sping inside the barrel. This was an indicator that the spring may be broken so the employees took precautions (per procedure) and stood out of the line of fire of the SSV barrel and stem. As the employees backed the barrel off the last thread, the barrel and stem projected off the SSV bonnet and against the wall of the well house. Employees then called the Drill Site Operator and VECO dispatch. SRT was notified. Approximately 2 galllons of well bore fluids leaked from the SSV onto the Well house floor. Further inspection revealed that the threads on the lower adapter stem had been sheared which allowed the barrel and stem to project to the well house wall.	Material was recovered using a super sucker and hand tools.	Material was taken to G&I for disposal.	
6/5/03	2003-IR-530681	Drill Site 17, DRILL SITE 17 WELL 1	Hydraulic Fluid	2.00	While making daily HES inspections, the DS17 operator noticed fluid leaking from the SSV on well 1. All fluids contained in the well cellar.	Material was recovered using a super sucker.	Material was taken to G&I for disposal.	
7/23/03	2003-IR-575031	Flow Station 1, Flow Station 1/ outside module 4938	Hydraulic Fluid	2.00	Employee returned from afternoon break at approximately 15:30. Before the employee resumed operation of the man lift he conducted a pre-operational inspection on the unit and discovered that a hydraulic fitting had failed leaking hydraulic fluid from within the engine compartment.	Puddles of oil were wiped up with sorbents and contaminated gravel was recovered with a bobcat and placed into a dump box for disposal.	Material taken to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/24/07	2007-IR-2131564	Drill Site 01, DS-1, FS1/SIP/STP	Crude Oil	2.00	On 012407 at approximately 1300 hours, a Veco employee noticed what appeared to be saturated tire tracks leading from well # 18 toward the entrance of the pad. Upon further investigation, it was determined that the tracks were caused by a vac unit that was at that location loading well bore returns. The operator stated that he left DS-1, went to Wells Support to vac out there sumps and then returned to DS-1 to finish up that job and noticed something in the road that looked like a line of solids but did not notice anything coming from his truck. After finishing up at DS-1 he proceeded to DS-2 #21 where he noticed that his de-mister bucket was about half full. He then emptied the bucket and continued with the job unaware that the trail he noticed was from his truck. The second operator stated that he noticed several spots on the ground at DS-2 #21 after they arrived. He then made the first operator aware of the spots. The first operator then emptied the bucket and the second operator cleaned up the spots on DS-2. S.R.T. responded for the clean up and disposal. The spill was estimated at 2.0 gallons.	Loader, and dump box were used to remove contaminated snow.	Snow was brought to G&I for disposal.	
2/14/04	2004-IR-795609	Drill Site L5, L5 and Niakuk, GPMA	Diesel	2.00	After lunch at L5, the employees were doing their 360. They noticed that there was a red spot on the ground. They determined that it was diesel fuel. They remembered the operator mentioning a similar spot on the ground at Niakuk, where they were also working. They concluded that said spot was also from their truck. The two areas totaled 2 gallons of fuel.	Hand tools were used to chip up the mateial and place it in to oily waste bags.	Material will be sent in for recycle	
10/6/00	2000-IR-95474	Drill Site 05	Hydraulic Fluid	2.00	Hydraulic hose leaked on a heavy equipment blade.	Cleaned up by the equipment services group.	The material was disposed at pad 3.	
4/14/03	2003-IR-488255	Surfcoat Pad, Surfcoat well # 1	Hydraulic Fluid	2.00	During the morning well house inspections the operator noticed a hydraulic fluid spill inside well #1. Two pin holes were discovered in the recovery drum for the hydraulic panel.	Hand tools were used to remove material from site.	Material went to G&I for disposal.	
4/2/04	2004-IR-856303	Main Construction Camp (MCC), In back of MCC and in front of U-13, Non Process Area	Diesel	2.00	Tire truck was in VMS for repairs and fuel bleed line was not tightened after repair work was completed. Leak was noticed in front of MCC and U-13.	Contaminated snow was recovered with a loader and bucket and placed into a dump box for disposal.	Material was disposed at T-pad	
4/23/05	2005-IR-1336103	Northern Gas Injection (NGI), North Gas Injection Pad, Non Process Area	Hydraulic Fluid	2.00	Loader #52-303 experienced an O-Ring failure in a hydraulic hose fitting and leaked approx. 2 gallons of hydraulic oil onto the snow covered gravel paf. SRT notified, spill cleaned up.	Contaminated snow was reocoverd with a loader and bucket and placed into a dump box for disposal.	Taken to T-pad for disposal	
8/26/00	2000-IR-95316	GC-3 Oil Section	Crude Oil	2.00	The oil and gas operator was bleeding the pressure from the B HP Separator outlet line to a bleed trailer outside SK-2. There was a slug of oil and water that caused the hose to whip and the end of the hose came out of the the bleed trailer and sprayed approx. two gallons of oil/water on the pad.	Loader and Hand tools were used to clean up affected gravel.	Material was taken to Pad 3	
2/7/01	2001-IR-98929	Drill Site 05	Hydraulic Fluid	2.00	While using the Dosco miner to clean out a reserve pit on DS 5 there was a failure of a fitting / seal on the cutter head of the Dosco miner. The failure resulted in a 2 gallon spill of hydraulic oil. Oil was contained, spill reported to management and to SRT. Spill cleaned up.	Recovered with hand tools and placed into bags for disposal at Pad 3.	1 cu yd of gravel to pad 3	
5/18/03	2003-IR-513488	Hot Water Plant, Hot Water Plant	Crude Oil	2.00	Vac truck was loading 140 bls of hot water to break 150 bls of frac gel prior to transport to Pad-3. After loading the hot water, the plant operator blew down the line with air as the driver was closing the load line valve. This resulted in fluid being blown out of the vent line. Equipment was immediately shut down and Dispatch was called. Available absorbent pads were used to absorb as much as possible. SRT responded and supplied more absorbents, then asked to have as much as possible vac'd up from the ground and water puddle surface. SRT stated the product on the ground is 1 gallon.	Residue cleaned up with vac truck and absorbent pads.	delivered to Pad-3	
12/8/03	2003-IR-704228	Well Pad C, C pad.	Fresh Water	2.00	The drain pipe from the rig washing machine to the cuttings tank failed, causing ~2 gallons of fresh water and 1/2 cup of biodegradeable soap to reach the pad.	Water was cleaned up and ice was chipped up by environmental.	CC-2A Pit	
3/12/01	2001-IR-101013	Apex Gas Inj Drill Site	Hydraulic Fluid	2.00	While loader was working on AGI pad, a fitting broke on hydraulic line causing a 2 gallon spill of hydraulic oil. Oil was contained, spill was reported to management and SRT. SRT cleaned up the spill.	Recovered product with loader and hand tools. Placed into dump box for disposal at pad 3.	Pad 3	
2/26/04	2004-IR-818624	Flow Station 1, Underneath horizontal flare tip, FS1/SIP/STP	Natural Gas Liquid (NGL)	2.00	Noticed a small flame on the ice under the STV/IP flare flame in the flare pit area. Further investigation utilizing binoculars determined that a flameable liquid was periodically dripping to the area under the flame and was burning. The automatic dump valves, heat trace and flow lines were repaired.	No clean up actions required, material burned away.	None	
8/2/03	2003-IR-589605	PBOC, PBOC bull rail	Diesel	2.00	Diesel was discovered to be leaking from a damaged fuel line on pickup 14-586L which was parked at the bull rail at PBOC. Cause of the damage to the line is unknown.	Gravel shoveled into bags and taken to Pad 3 for processing.		

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/9/03	2003-IR-591107	U-11 (EOA Building), Floor of warehouse U-11	Diesel	2.00	GPB Managed Services Manager reported a diesel spill in warehouse U-11. Cause is unknown but suspect trucks parked in warehouse are the source of the spill. Owner of trucks parked in warehouse over last year unknown.	Gravel with contamination removed.		
2/1/96	1996-IR-91175	Spine Road	Diesel	2.00	A Pool Arctic winch truck collided with a heater that was hooked up to the reflector crew pick up. The pick up was parked on the side of the Spine Road, while the crew was working on the reflectors. The heater was knocked off of the trailer and onto the tundra. The trailer hitch was pushed into the fuel tank on the pickup. Approx. 2 gallons of diesel spilled from the punctured fuel tank and onto the side of the road. Approx .25 gallons of lube oil spilled from the heater, onto the snow. (Note: Because the vehicle involved in the incident was not associated with a PBU department, this spills has been charged to the HSET Department by the Field Manager.)		The diesel contaminated snow was placed in the melt tank in A3/W2. It will be melted and used for freeze protection. The non-hazardous lube oil contaminated snow was placed in the accumulation bin on Santa Fe Pad for disposal at Pad 3.	A Pool Arctic winch truck collided with a heater that was hooked up to the reflector crew pick up. The pick up was parked on the side of the Spine Road, while the crew was working on the reflectors. The heater was knocked off of the trailer and onto the
8/20/96	1996-IR-89547	Well Pad W	Diesel	2.00	Approximately two gallons of diesel fuel spilled from a discharge hose prior to connecting to the tree while performing an MIT. The operator opened a valve before engaging the vacuum pump. The normal procedure requires the pump to be started before the valve is opened. Following the spill, contaminated gravel was cleaned up and set aside for disposal.		The affected gravel will be washed. The recovered diesel will be used for freeze protection. The gravel will then be placed in the accumulation bins on Santa Fe Pad, for disposal at Arco Pad 3.	HB & R was rigging up for MIT on W-40. When the operator removed the cap from the hard line a small drip of diesel leaked from the line. The operator tightened the cap and pulled a vacuum on the line to remove any fluids. The hose to the well was then
5/29/98	1998-IR-90521	Santa Fe Pad	Crude Oil	2.00			Sorbents were bagged and placed in North Slope Oily Waste Dumpster. RCRA exempt gravel was placed in the accumulation bin on Santa Fe Pad for disposal at ARCO Pad 3.	Oily timber and sorbents were improperly disposed of at the wood pile on Santa Fe Pad. As the snow began to melt, crude oil migrated off the pad with the melt water onto the tundra (NRC was notified). Approximately 1/2 cup of crude oil reached the tundr
11/13/96	1996-IR-89698	GC-3 Oil Section	Crude Oil	2.00	Approximately 2 gallons of crude was released from the vent on the MEG expansion tank in Skid 25 for the heat trace system for cretaceous wells. Upon investigation, it was determined that a minimum flow valve leaked Glycol into the tank causing it to overflow. The tank had some residule crude in it which sprayed out the vent onto the side of the skid and onto the ground.		Exempt clean up material was placed in a accumulation bin on Santa Fe Pad for disposal at ARCO Pad 3. Exempt rags were bagged and placed in the oily waste dumpster.	Approximately 2 gallons of crude was released from the vent on the MEG expansion tank for the heat trace system for cretaceous wells. Upon investigation, it was determined that a minimum flow valve leaked Glycol into the tank causing it to overflow. The
11/17/94	1994-IR-86059	Field Ops Center (FOC)	Diesel	2.00	The night fueler for VMS was fueling equipment when his tanker ran out of fuel. The automatic shut off on the nozzle did not release due to lack of back pressure. After refilling his tanker, he engaged the pump to resume fueling operations. This caused diesel to flow from the hozzle and overflow the catch pan under the nozzle holder, spilling approximately 2 gallons of diesel onto the pad. An addition two gallons was caught in sorbents. The contaminated material was scraped up with a loader and placed in a dump truck. Sorbents were placed in the NSB oily waste dumpster for incineration. Contaminated snow was taken to T Pad pit for testing and recovery. Ref: Spill Report No. 94-138		Sorbents were placed in the NSB oily waste dumpster for incineration. Contaminated snow was taken to T Pad pit for testing and recovery.	The night fueler for VMS was fueling equipment when his tanker ran out of fuel. The automatic shut off on the nozzle did not release due to lack of back pressure. After refilling his tanker, he engaged the pump to resume fueling operations. This caused
4/6/98	1998-IR-90557	Well Pad S	Corrosion Inhibitor	2.00	Approximately two gallons of corrosion inhibitor (Nalco EC-1259-A) leaked from a loose injection fitting at well S-12. The leak was discovered by the pad operater during the night shift rounds. The fitting that leaked is a compression fitting on the injection panel just upstream of the inlet to the Skoflo valve on the continuous injection system. On inspection, the fitting appeared to have come loose. No physical damage to the fitting could be detected. The cause of the failure is being investigated. Following the discovery of the spill, the fitting was tightened and the spill cleaned up.		Gravel was washed and the recovered product was reused. The washed non-hazardous gravel was taken to ARCO Pad 3 for disposal.	Approximately two gallons of corrosion inhibitor (Nalco EC-1259-A) leaked from a loose injection fitting at well S-12. The leak was discovered by the pad operater during the night shift rounds. The fitting that leaked is a compression fitting on the inj

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/2/94	1994-IR-86448	Well Pad F	Diesel	2.00	While re-fueling hose came apart. Spilling 2 gals, of diesel fuel.		Sorbants bagged & placed in oily waste dumpster for disposal at NSB. Non Hazardous contaminated gravel taken to Arco Pad 3.	While fueling a backhoe, a factory fitting on the fueling hose broke. The line was under pressure. The operator had a liner in place (18" x 18") and the liner over flowed before the operator could shut off the pump. The liner contained approx. 1 1/2 ga
9/14/95	1995-IR-91544	Well Pad X	Methanol	2.00	The body bleed port on the lateral valve for well X-12 leaked while under approximately 2500 psi pressure from pumping operations to remove a suspected ice plug in the flowline. The spill, estimated at 2 gallons of neat methanol, was quickly contained, the line was de-pressured, and the valve repaired. The BPX Environmental Department assisted with clean up of the spill. There were no injuries. Observation of the work by the pump crew and quick action by the pump operator prevented a larger spill. Examination of the bleed port revealed that an allen screw had loosened enough that it leaked when the higher pressure of the pump job was applied to the valve. The screw was tightened by the grease crew.		The gravel was washed and will be re-used. The fluids generated by washing will be used for freeze protection.	A chemical truck was pumping methanol, at approx. 2500 psi, down the lateral line on X-12 to try and free up an ice plug. One of the workers noticed fluid coming from around the lateral valve and the operation was shut down immediately. Investigation re
6/21/95	1995-IR-86620	GC-3 Oil Section	Crude Oil	2.00	In April of 1995 we had a crude oil spill in the Skid 30 Dehydrator module. On June 21, 1995, approximately 2 gallons of oil was found underneath the module in the area of the previous April spill. Upon investigation, a small bolt-hole in the main floor was found unplugged where a ladder had been previously relocated. This allowed the crude to enter the subfloor. After a period of time, crude leaked through the subfloor and onto the Pad.		The exempt clean up material was placed in the accumulation bins on Santa Fe Pad for disposal at Arco Pad 3.	Approx. 2 gallons of crude leaked from the subfloor of Skid 30. After investigation it was discovered that in April 1995 there was a release of crude inside of Skid 30. The crude leaked into the sub floor through a bolt hole that was left unplugged when
3/27/98	1998-IR-90537	Well Pad D	Methanol	2.00	While performing coiled tubing work on well D-31, the crew was in the process of freeze protecting lines and preparing to pump water down the coil. While switching from pumping methanol to pumping water, a valve to the methanol tank was incorrectly left open. This allowed water in a Peak tanker to flow into the methanol tank resulting in overfilling of the tank. Most of the spilled fluid was caught in the methanol tank's containment tray. However, much of the contained tray was full of snow from a recent storm. This allowed some of the spilled fluid to escape the tray and contaminate the surrounding snow-covered pad. Quick and effective action by the Peak tanker driver prevented a larger spill.		The methanol/snow mix was placed in a melt tank for thawing prior to re-use as freeze protection.	On 3/27, while performing coil tubing work on well D-31, personnel were in process of freeze protecting lines and were preparing to pump water down the coil. While switching from methanol to water, a valve to the methanol tank was inadvertantly left ope
1/21/97	1997-IR-89784	Well Pad C	Crude Oil	2.00	The spill was discovered behind C-34 well house. The oil seeped from the flange where the S-riser bolts to the lateral line. The bolts were found to be loose to the point where oil dripped from the loose connection onto the snow and seeped under the snow undetected.		Two (2) cubic yards contaminated snow and gravel were taken to Pad 3 snow melt pit.	After bringing C-pad well C-34 back on-line after a shut down, crude oil was discovered to have seeped out of the flange where the S-riser bolts to the lateral line. The bolts were found to be slightly loose, allowing the oil to drip from the loose conne
2/26/96	1996-IR-91190	Well Pad M	Corrosion Inhibitor	2.00	A leak was discovered at the sample point for the Continuous Chemical Injection System on Well 25, M Pad. The leak was due to a needle valve that had not been closed properly. Also the sample port cap was not sealed properly, which allowed the product to leak onto the gravel in the well house.		The exempt contaminated gravel was taken to Arco Pad 3 for disposal.	A leak was discovered at the sample point for the Continuous Chemical Injection System on Well 25, M Pad. The leak was due to a needle valve that had not been closed properly. Also the sample port cap was not sealed properly, which allowed the product to
4/29/00	2000-IR-98858	Drill Site 02	Crude Oil	2.00	The investigation revealed that the valve had leaked from either the bonnet seal or one of the lubrication fittings. The leak was not active and could not be duplicated at the time of the investigation. No further attempt will be made to force the valve	The SRT was called out to clean up the spill. A loader was used to pickup snow outside the line. The remainder of the snow was shoveled into a loader bucket. The material was then placed into a dump box.	The material was taken to pad 3 for disposal.	The investigation revealed that the valve had leaked from either the bonnet seal or one of the lubrication fittings. The leak was not active and could not be duplicated at the time of the investigation. No further attempt will be made to force the valve

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/10/00	2000-IR-98360	Flow Station 2	Crude Oil	2.00	The misted area in the flare pit resulted from liquid carryover from the Kald-Aid flare. The carryover most likely occurred during a series of plant shutdown flaring events as a result of the 10/7/99 power outages. The mist was first discovered on 1/10/	1/10/00 - No cleanup activities have been done at this time. Jeff Conn at ACEC was contacted and ARCO was granted approval to allow the spill cleanup to be postponed due to safety concerns at the flare pit. The off-pad amount and the gravel berm surroun		The misted area in the flare pit resulted from liquid carryover from the Kald-Aid flare. The carryover most likely occurred during a series of plant shutdown flaring events as a result of the 10/7/99 power outages. The mist was first discovered on 1/10/
1/10/00	2000-IR-98360	Flow Station 2	MEG	2.00	The misted area in the flare pit resulted from liquid carryover from the Kald-Aid flare. The carryover most likely occurred during a series of plant shutdown flaring events as a result of the 10/7/99 power outages. The mist was first discovered on 1/10/	1/10/00 - No cleanup activities have been done at this time. Jeff Conn at ACEC was contacted and ARCO was granted approval to allow the spill cleanup to be postponed due to safety concerns at the flare pit. The off-pad amount and the gravel berm surroun		The misted area in the flare pit resulted from liquid carryover from the Kald-Aid flare. The carryover most likely occurred during a series of plant shutdown flaring events as a result of the 10/7/99 power outages. The mist was first discovered on 1/10/
10/1/97	1997-IR-98621	COTU Facility	Diesel	2.00	"While loading 3600 gallons of diesel fuel in back compartment of fuel truck, there was a 2 1/2 camlock gasket hung up in the front compartment valve causing fuel to leak trough and come out the front fire valve vent. Two gallons of diesel fuel leaked	"All material (gravel) was scraped up immediate with shovels and deposited into portable container. - Material was placed in cutting box at Peak Base, Deadhorse and is being held for thermal remediation."		"While loading 3600 gallons of diesel fuel in back compartment of fuel truck, there was a 2 1/2 camlock gasket hung up in the front compartment valve causing fuel to leak trough and come out the front fire valve vent. Two gallons of diesel fuel leaked
10/25/95	1995-IR-91587	Well Pad B	Crude Oil	2.00	A crew of workers installing chemical tubing along the B-22 flowline discovered a very fine mist of oil coming from the isulation on the flowline. They called the pad operator who promptly informed his supervisor, isolated both ends of the flowline, and depressured the line, until repairs could be made.		The contaminated snow and ice was taken to Arco Pad 3.	A small leak had developed on the 6 inch flowline at the second 90 degree elbow in the reserve pit. This leak was caused by corrosion/erosion due to fluid velocity in the line. This leak migrated through the insulation and sprayed into the reserve
6/26/00	2000-IR-98356	Drill Site 03	Crude Oil	2.00	Crude spilled sometime during the snow covered winter months. The area was not visible from the top of the pad. It was in an area 100 feet from wellhouse or well flow lines. No other lines or valves are in this area. SOURCE OF SPILL IS UNKNOWN	SRT removed the oiled gravel into oily waste bags and used weedeater to removed oiled grass.		Crude spilled sometime during the snow covered winter months. The area was not visible from the top of the pad. It was in an area 100 feet from wellhouse or well flow lines. No other lines or valves are in this area. SOURCE OF SPILL IS UNKNOWN
11/20/93	1993-IR-86708	Well Pad D	Methanol	2.00	A portable methanol trailer used in support of well work was parked on the pad. The dry camlock valve was left open on the discharge hose allowing contaminants to dtrip onto the pad. The camlock valve was outside a built-in containment sump. All contaminated material was picked up with shovels and placed in bags. All contaminated material was placed in a tank for melting for future re-use in well freeze protetion.		All contaminated material was placed in a tank for melting for future re-use in well freeze protection.	A portable methanol trailer used in support of well work was parked on the pad. The dry camlock valve was left open on the discharge hose allowing contaminants to drip onto the pad. The camlock valve was outside a built-in containment sump.
1/8/94	1994-IR-88226	Well Pad K	MEG	2.00	Operator left guzzler parked while he went to obtain a permit from 18E supervisor. When he returned, he discovered a glycol leak due to a broken tank heater circulation line. Approximately 2 gallons of glycol/water mixture (50/50) leaked out onto the pad. Ref: Spill Report No. 94-004		Contaminated snow and ice were take to Arco Pad 3.	Operator left guzzler parked while he went to obtain a permit. When he returned, he discovered a glycol leak due to a broken tank heater circulation line. Approximately 2 gallons of glycol/water mixture (50/50) leaked out onto the pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/24/94	1994-IR-86525	Well Pad B	Crude Oil	2.00	For Pad Safeout we had established double block and bleeds at the Wellhead. The Master, SSV, and wing valves were closed with bleed on swab cap open. The Master and SSV valve slowly leaked and allowed oil to spill out the swab cap vent. It was discovered by the Pad Operator making rounds and the vent was closed and greasers were called to grease the two valves. Total volume of spill was estimated at two gallons.		The contaminated gravel will be placed in accumulation bins on Santa Fe pad for future disposal at Arco Pad 3. Sorbents were placed in oily waste dumpster for incineration at the NSB.	While B pad was being shut down, a spill occurred at Well B21. The spill was the result of a frozen master valve on the well tree which would not close completely allowing approx. 2 gallons of crude to spray inside the well house.
4/27/97	1997-IR-89234	Well Pad S	Produced Water	2.00	All header drains were flushed on 4/27/97 in preparation for a pad shut down scheduled for 5/7/97. During a skid walk through on 4/28/97 the pad operator heard the PSV's lift on the slop oil vessel causing a spill out side of skid 57 of three gallons. Upon investigation the pad operator found header 46 block valves were leaking into the drain system..One block valve and a flow control valve were leaking from header 46 and the flow control valve to the slop oil vessel also leaked lifting the PSV's causing this spill. The pad operator was able to open the header 46 drain line flow control valve, flush it out and close the valve. This action stopped the leak. He then pumped down the slop oil tank and called environmental to clean up the spill.		The exempt snow and gravel were placed in a dump truck and transported to T pad pit for disposal.	During depressuring operations in Skid 57 on S Pad, a 2" throttle valve did not seat properly allowing approximately one gallon of crude and two gallons of produced water to vent to the atmosphere and spray onto the pad.
3/17/98	1998-IR-90667	Well Pad J	Crude Oil	2.00	During the GC-1 emergency shutdown the J Pad test separator overpressured causing ruptured disk to blow & PSV to lift. This resulted in a fine mist being sprayed into the containment pit & extending onto the tundra. As the mist is very fine the actual volume is quite low. More details pending investigation.		Impacted snow was taken to Pad 3 for disposal.	During a GC-1 shut down event on 3/17, J pad test separator overpressured causing a rupture disc to blow and a pressure safety valve to lift- approximately 2 gallons of crude were released into the reserve pit at J Pad.
7/16/98	1998-IR-89901	Well Pad J	MEG	2.00	Workers cleaning inside of Skid J-52 inadventantly dumped wash water down the deluge system drain, causing approximately 5 gallons of a crude oil/glycol/water mixture to be released under the skid to the gravel pad.		Non-hazardous material taken to Pad 3 for disposal.	Workers cleaning inside of skid J-52 inadvertantly dumped wash water down the deluge system drain, causing approximately 5 gallons of a crude oil/glycol/water mixture to be released under the skid to the gravel pad.
5/10/95	1995-IR-87360	Well Pad A	Crude Oil	2.00	The pad operator safed out the well pad separator to change out the off gas meter. When the WPS had approximately 5 psi left on it the pad operator blocked in the up and down stream manual block valves on the off gas leg meter run. The meter run was then vented to atmosphere through the vent to atmosphere. An instrument tech was watching the vent and stated that a small amount of gas came out the vent followed by a small volume of oil mist estimated to be 2 gallons by the environmental department. The cause of the spill seems to be the block valve down stream of the off gas meter leaking back slightly allowing oil to flow into the meter run and out the atmospheric vent.		The exempt clean up material was taken to T Pad Pit for disposal.	Approximately 2 gallons of crude was vented to the outside of skid 56. This happened during bleed down of the Off Gas Line on the test separator inside skid 56. The cause has been determined to be a leaking valve.
3/7/94	1994-IR-88598	Drill Site 03	Diesel	2.00	Fueler was filling bus on access road to DS 3. He removed and dropped the fuel nozzle without activating the shutoff mechanism. Two gallons of diesel was spilled outside the containment liner.	Contaminated material was shoveled into bags.	Contaminated material placed into temporary storage bins on Santa Fe pad for future disposal ate ARCO Pad 3 West Pit.	During fueling operations, fueler dropped the nozzle with the automatic shut off switch in the open position, causing diesel to spill onto the ground. A liner was being used, but the fuel spilled over the side.
4/16/96	1996-IR-90778	Well Pad Y	Crude Oil	2.00	The 4" S riser developed a small leak on the 90! bend. The leak allowed crude to spray (under pressure) onto the walls and gravel floor of the well house (Y-33). All crude was contained inside the well house.		The exempt contaminated gravel was taken to Santa Fe pad and placed into a hopper awaiting transportation to Arco Pad 3 for disposal. The oily sorbents were taken to a NSB Oily Waste dumpster for future incineration.	The 4" S riser developed a small leak on the 90! bend. The leak allowed crude to spray (under pressure) onto the walls and gravel floor of the well house (Y-33). All crude was contained inside the well house.
11/24/99	1999-IR-98346	Drill Site 18	Crude Oil	2.00	A loose fitting connecting well 18-12 to a raw gas lift header supplied/ran well 18-14 allowed a fluid leak. It was lightly misted around the area and a pool of oil of approx. 2 gallons underneath the fitting.	SRT responded and cleaned up area that was lightly misted and the pool of oil underneath the fitting with a shovel.		A loose fitting connecting well 18-12 to a raw gas lift header supplied/ran well 18-14 allowed a fluid leak. It was lightly misted around the area and a pool of oil of approx. 2 gallons underneath the fitting.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/24/98	1998-IR-98774	Drill Site 07	Diesel	2.00	The injector sump froze due to water leaking through pack-offs. This caused the drain hose to freeze and made it impossible to drain the injector pump which leaked diesel onto the snow covered gravel pad.	Used brooms to sweep snow area and wheelbarrows to move snow. Used hand shovels and loader to pick up the contaminated snow to be disposed of at Pad 3 East Pit. - Contaminated snow was taken to Pad 3 East pit for future melting and injection at Pad 3 W		The injector sump froze due to water leaking through pack-offs. This caused the drain hose to freeze and made it impossible to drain the injector pump which leaked diesel onto the snow covered gravel pad.
5/3/94	1994-IR-86249	GC-2 LPS Section	Crude Oil	2.00	The LPS operator noticed oil and water running down the wall of skid #494 control room. He discovered a 16" produced water line had a leak on the inside and outside walls as it left the skid. He blocked in the 16" produced water line, and put a containment under the outside spill. Had about seven gallons of oil on the snow outside the skid. Called Environmental and reported the spill. Started draining the 16" produced water line and cleaned up the oil and water inside skid #494. The internals for 'C' slugcatcher were removed mid-1993. The sand flows with the water at high velocity which is causing erosional damage in the 16" line.		Contaminated material taken to ARCO Pad 3.	A sixteen inch (16") produced water line at Skid 494 developed a leak causing a produced water and crude spill. Root cause is unknown at this time, will be determined when repairs can be made.
7/16/96	1996-IR-89608		Seawater	2.00	A Peak vac truck loading sea water at SIP for a BP job lost 2 gallons of sea water onto the pad when a corroded nipple on the front site glass developed a crack. The fitting was carbon steel; it corroded due to the sea water transport and road vibration.		The bagged material will be stored in locked hoppers on Santa Fe Pad for disposal at Arco Pad 3.	A Peak vac truck loading sea water at SIP for a BP job lost 2 gallons of sea water onto the pad when a corroded nipple on the front site glass developed a crack. The fitting was carbon steel
4/16/98	1998-IR-90533	Well Pad N	Crude Oil	2.00	N-Pad was planning to do some project work that was to be sheltered by the GC-2 slowdown for slug-catcher work. Safeout was started at the GC on 4/15/98, 14 hours ahead of schedule. This did not allow the well pad time to de-inventory the flow lines and manifold piping to the GC as is normally done. As a result, the well pad was required to bleed flow line pressure down at the manifold module to allow swinging of a blind in Mod. 450 at GC-2. Because of pressurisation problems resulting from leaking valves in the HP flow lines at Skid 8, all SSVs were closed on the Pad and additional valves were closed at the GC on the HP flow lines. The wing valves were closed on the wells after approx. 7 hours. The tree cap pressure gauges were then removed and a bleed was established. At this time, there was an estimated 40 to 60 psig on the "S" riser side of the wing valve. At approx. 2230 hours, it was discovered that there had been a discharge of liquid in to the well houses on N-09 (2 gal. approx.) and N-18 (25 gal. approx.). The source of the spill pressure is most likely from the HP header.		Material has been taken to Pad 3 for disposal.	During shut-in of Pad for maintenance work at GC-2, pressure bult up behind the surface safety valve and wing valve causing approximately 2 gallons of crude to come out the swab cap at N-9.
12/14/99	1999-IR-100924	Lisburne Production Center	Diesel	2.00	"Level control valve to diesel-driven firewater pump failed, allowing over-filling of day tank. Overflow vent through roof discharged diesel which ran down roof, wall, and onto ground."	Drip pans and absorbent pads were placed under leak; flange was isolated from further filling through faulty control valve.		"Level control valve to diesel-driven firewater pump failed, allowing over-filling of day tank. Overflow vent through roof discharged diesel which ran down roof, wall, and onto ground."
6/14/95	1995-IR-86608	Well Pad W	Corrosion Inhibitor	2.00	Approximately two gallons of RU205 Corrosion Inhibitor was spilled when a cross-over hose parted during fluid transfer operations at W pad. The failure occurred near the end of the job and quick action by the crew prevented a larger spill. This hose is approximately 12" long and connects two sections of hard pipe on the outlet side of the truck-mounted pump. There is currently no preventative maintenance schedule on this hose or on similar hoses used in our operations. Visual inspection of hoses is included as part of the DOT pre-trip inspection of the equipment, however, employees have been expected to perform the inspection procedure by memory. No formal, written procedures are available in the truck. Records indicate that failure rates for these hoses are low as this is only the second hose failure since 1989.		Sorbents were rinsed and the fluids were re used for freeze protection. Sorbents were then put in the NS oily waste dumpster.	After pumping corrosion inbibitor into skid 501 a rubber hose which was connected to the pump, parted at the fitting nearest to the pump causing the material to leak on to the pad.
5/9/00	2000-IR-98354	Drill Site 07	Crude Oil	2.00	Operator was dislodging an obstruction in the sample sink and obstruction broke free. Fluids surged into the sump and through the vent outside on to the snow covered pad.	SRT responded and cleaned up contaminated snow with hand tools and transported to Pad 3.		Operator was dislodging an obstruction in the sample sink and obstruction broke free. Fluids surged into the sump and through the vent outside on to the snow covered pad.
3/19/99	1999-IR-100927	Point MacIntyre	Methanol	2.00	"Relief valve in sea water pig receiver leaked into the vent header and froze. During thawing operation, sea water and methanol misted out the top of the relief tank."	"The material was recovered along with the contaminated snow, using shovels and garbage cans. The material was manifested and taken to pad 3."		"Relief valve in sea water pig receiver leaked into the vent header and froze. During thawing operation, sea water and methanol misted out the top of the relief tank."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/19/99	1999-IR-100927	Point MacIntyre	Seawater	2.00	"Relief valve in sea water pig receiver leaked into the vent header and froze. During thawing operation, sea water and methanol misted out the top of the relief tank."	"The material was recovered along with the contaminated snow, using shovels and garbage cans. The material was manifested and taken to pad 3."		"Relief valve in sea water pig receiver leaked into the vent header and froze. During thawing operation, sea water and methanol misted out the top of the relief tank."
10/31/92	1992-IR-86672	BOC Pad	Lube Oil	2.00	Following vehicle maintenance, a 966 loader was working on a job for the Maintenance Department. Lube oil spilled out because of a fitting on the loader not being tightened enough by VMS. The contaminated snow was scraped up with a bucket loader and taken to A3W2 melt tank for recovery. Hose fittings were replaced and tightened correctly.		Contaminated snow taken to A3W2 melt tank for recovery.	Following vehicle maintenance, 966 loader was working on a job for the Maintenance Dept. Lube oil spilled out because a fitting had not been tightened enough by VMS.
3/31/92	1992-IR-87259	GC-3 Pad	MEG	2.00	A diluge dump in Skid 3 caused water to flow into Skid 12 and into the wind seal drain. The Glycol that is in the wind seal in Skid 12 then overflowed onto the pad. The Morooka was used to scrape up the contaminated snow. Contaminated material was taken to A3W2 melt tank.		Contaminated material taken to A3W2 melt tank.	A diluge dump in Skid 3 caused water to flow into Skid 12 and into the wind seal drain. The glycol that is in the wind seal in Skid 12 then overflowed onto the pad.
8/2/95	1995-IR-98282	Drill Site 11	Crude Oil	2.00	"O-ring on Wheatley check valve blew out causing oil to spray out on well house walls, floor grating and well cellar. All contamination remained inside wellhouse."	Utilized spill van to steam off walls and grating of well house. Used absorbants to remove the crude. Pulled up grating and used guzzler to pick up contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 8/2/95 to be held for fut		"O-ring on Wheatley check valve blew out causing oil to spray out on well house walls, floor grating and well cellar. All contamination remained inside wellhouse."
2/20/98	1998-IR-98773	Drill Site 18	Methanol	2.00	"When the DS crew went out to the site, they noticed the methanol on the ground. They could not detect how it was spilled but the methanol trailer was close by."	Used shovels to scrape up contaminated snow and put with a load of crude that was taken to FS1 for recycle. - Spill cleaned up and re-cycled with on going work at well 34 and disposed at FS1.		"When the DS crew went out to the site, they noticed the methanol on the ground. They could not detect how it was spilled but the methanol trailer was close by."
10/19/99	1999-IR-98338	Drill Site 04	Diesel	2.00	Operator flowed annulus bleed fluid into a full slop trailer tank. Operator should have checked the tank center hatch instead of relying on the tank sight glass.	SRT used loader and scraped up spill materials and manifested to DS 4 G&I.		Operator flowed annulus bleed fluid into a full slop trailer tank. Operator should have checked the tank center hatch instead of relying on the tank sight glass.
7/15/93	1993-IR-89862	Well Pad P	Diesel	2.00	Peak crew loading dozer on lowboy used improper loading techniques. Balance point was exceeded, causing trailer to turn over. Materials discharged onto pad.		Contaminants were taken to Pad 3 for disposal.	Peak crew loading dozer on lowboy used improper loading techniques. Balance point was exceeded, causing trailer to turn over. Materials discharged onto pad.
6/21/99	1999-IR-98805	Spine Road	Diesel	2.00	Fuel tank cap was not connected to the filler neck on a 275 barrel tanker. This should have been picked up in a vehicle alk around (controllable spill).	SRT pickedup gravel and sent to Pad 3.		Fuel tank cap was not connected to the filler neck on a 275 barrel tanker. This should have been picked up in a vehicle alk around (controllable spill).
3/30/94	1994-IR-88456	Well Pad A	Diesel	2.00	Fuel filter clogged with pieces of silicone, causing the filter to overpressure and burst. Diesel flowed out of unit and onto the pad.		The contaminated material was taken to A3W2. The material will be melted and contaminates soaked with sorbents which will be taken to NSB for incineration.	A fuel filter on an HB& r Hot Oil Pump Truck clogged, causing the filter to over-pressure and burst. Diesel flowed out of the unit and onto the pad.
1/4/00	2000-IR-100671	Drill Site L4	Crude Oil	2.00	"During routine blowing down of blowcase at L4, standard operating procedures were not followed completely, resulting in carry over to relief pit."	The spill response team was notified. They came out and shoveled the misted snow from the relief pit plus the snow on the frozen tundra and placed the material into the waste bins. The material was then transferred to a dump box and taken to pad 3 for disposal		"During routine blowing down of blowcase at L4, standard operating procedures were not followed completely, resulting in carry over to relief pit."
1/26/99	1999-IR-93402	Access Road	MEG	2.00	While delivering Bails to rig 7ES driver found truck was blowing cold air out heater. The driver stop at the time the truck started to overheat and start steaming. He pulled off the spine road onto the Fpad access road and WOA security personnel were called and BP spill techs were dispatched to scene to clean up the spill.		Sorbernts will be disposed of in the oily waste dumpster and non-hazardous snow and gravel will be disposed of at ARCO Pad 3.	Radiator hose failed on Nabors flatbed truck number P321 while going to Nabors Rig 7ES. Truck pulled-off Spine Road onto the F Pad access road.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/2/94	1994-IR-86273	Well Pad B	Crude Oil	2.00	On 7/2, semi-annual state testing was being conducted on B-Pad by pad operator Jim Kizer, State Inspector Bobby Foster, Brad Elias, Steve O'Sullivan and Matthew Linder. B-03 was flowing at a wellhead pressure of 2550 psig. The PCC was contacted for permission to close the wing valve and begin the test. Upon closing the wing valve, the stem packing failed and filled the well house with gas. The well house was evacuated and all equipment shut down. The safety system in skid 52 was tripped, closing the surface safety and the sub-surface safety valve. The PCC was notified and the response team mobilized. The lateral valve was closed containing the well. All safety systems held and the grease crew was called to make the necessary reparis.		The bags were placed in accumulation bins at Santa Fe Pad for future disposal at Arco Pad 3.	A lateral valve on the line from B-3 to Skid 54 developed a small leak causing approximately 2 gallons of crude to spill onto the gravel pad.
2/20/96	1996-IR-98667	Flow Station 2	Methanol	2.00	Truck driver inadvertantly hooked up to wrong connection for methanol transfer. Product blew out of vent and on to snow covered gravel pad.	Hand shovels were used to pick up contaminated material. - Contaminated material was taken to L Pad on 2/20/96 for melting and reuse.		Truck driver inadvertantly hooked up to wrong connection for methanol transfer. Product blew out of vent and on to snow covered gravel pad.
9/9/99	1999-IR-98842	Drill Site 07	Crude Oil	2.00	Flowline on well 7-23 was being depressurized. Some crude got into the blowdown line and misted into the relief pit and past the pad edge.	Gravel from pad and relief pit removed.Boom placed in lake as a precautionary measure.9/11/99 The pit liner was wiped down with rags and absorbs and a visual inspection made. It was determined by SRT and Field Environmental Compliance that the spill si	Gravel was scraped up with a bobcat and taken to Pad 3 West Temp Gravel Pit on 9/10/99 for future remediation. Absorbs and rags placed in oily waste disposal.	Flowline on well 7-23 was being depressurized. Some crude got into the blowdown line and misted into the relief pit and past the pad edge.
7/7/96	1996-IR-98287	Drill Site 18	Crude Oil	2.00	The stem packing on a lock open check valve located in the test divert line from the new truckable module to the manifold building failed.	Used shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/8/96 to be held for future remediation.		The stem packing on a lock open check valve located in the test divert line from the new truckable module to the manifold building failed.
8/31/99	1999-IR-98826	Central Gas Facility	Fresh Water	2.00	Technician removed instrument from top of vessel and did not plug hole. Vessel filled shortly thereafter and glycol ran out of open hole.	The SRT was notified to assist in the cleanup. Absorbent pads were used to clean up a portion of the glycol. The SRT used a bobcat to scrape up the contaminated area. The absorbent pads were bagged up and place in the oily waste dumpster. The contaminat	The contaminated gravel was taken to pad 3 for disposal.	Technician removed instrument from top of vessel and did not plug hole. Vessel filled shortly thereafter and glycol ran out of open hole.
3/27/00	2000-IR-94795	Well Pad A	Crude Oil	2.00	The Schlumberger E-Line crew was conducting an injectivity test at A-Pad, well #08. When the crew had completed the test and began running out of the hole the flow hose to the bleed tank froze up. This resulted in fluids being released from the lubricator pack off. The crew was at 3000 feet when they noticed the leak. They tightened the pack off as much as possible and slowed down as they continued out of the hole to surface. The wind was blowing at approximately 20 to 25 miles per hour to the west and the ambient temperature was minus 10 degrees F. The leaking fluid was blown (as a mist) across the pad and on to the snow covered tundra. It has been estimated the there was approximately 2 gallons of produced water, methanol and grease spilled as a result of this incident.	Affected snow was scraped up with a loader and hand tools.	Exempt material was taken to Pad 3 for disposal.	The spill was initially reported to NRC as 5 gallons. Volume was over estimated due to poor visability from phase one weather conditions.
5/4/92	1992-IR-87215	BOC Pad	Lube Oil	2.00	The source of the spill is unknown. Spots were discovered in the snow on the pad in front of the Medical facility entrance and between Tool Services and the Maintenance Service Module. The contaminated snow was scraped up with shovels and taken to the A3W2 melt tank for recovery. The Vehicle Maintenance Shop as been requested to examine all incoming vehicles for loose fittings.		Contaminated snow placed in A3W2 melt tank for recovery.	Spots discovered in snow on pad in front of Medical facility entrance, and between Tool Service building and Maintenance Service Module.
6/24/00	2000-IR-98862	Drill Site 14	Diesel	2.00	Spill was due to thermal expansion in the fuel tank from the hot weather. Tank was filled to high to allow for thermal expansion.	SRT shoveled product into bobcat loader and autocar hauled to Pad 3.		Spill was due to thermal expansion in the fuel tank from the hot weather. Tank was filled to high to allow for thermal expansion.
1/6/97	1997-IR-98333	PBOC	Diesel	2.00	Fuel solenoid valve stuck on idling vehicle allowing diesel to return to rear tank when fuel was being drawn out of front tank.	The contaminated snow was removed with handshovels. - The contaminated snow will be melted and reused as freeze protect.		Fuel solenoid valve stuck on idling vehicle allowing diesel to return to rear tank when fuel was being drawn out of front tank.
8/23/92	1992-IR-91036	BOC Pad	Diesel	2.00	Tank was overfilled by fueler off site. Not enough room was left for expansion. When the truck warmed up, the fuel leaked out the gas cap. The contaminated material was shoveled into plastic bags and taken to T Pad disposal pit.		Contaminated materials taken to T-Pad pit.	Tank was overfilled by fueler off site. Not enough room was left for expansion. When truck warmed up, fuel leaked out gas cap.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/28/95	1995-IR-98500	Drill Site 01	Crude Oil	2.00	Lateral valve on a flowline had a loose zerk fitting which leaked the crude onto the snow covered gravel pad below the valve.	Handshovels were used to remove the contaminated snow. - The contaminated snow was placed into a sump at DSM for reuse.		Lateral valve on a flowline had a loose zerk fitting which leaked the crude onto the snow covered gravel pad below the valve.
7/11/97	1997-IR-89400	BOC Pad	Diesel	2.00	Fuel line connection worked loose from fuel tank on bus resulted in slow leak of fuel while bus was parked at BOC bull rail. Personnel discovered leak, had vehicle removed for maintenance / repair of leak and did containment and started clean up of spilled fuel / contaiminated gravel. Environmental notifed and completed cleanup of contaiminated gravel on 7/11/97.		Lab analysis indicates that the material is non-hazardous and it was sent to Pad 3 for storage until it is remediated at a later time.	Fuel line connection worked loose from fuel tank on bus resulted in slow leak of fuel while bus was parked at BOC bull rail.
12/1/98	1998-IR-90194	BOC Pad	Motor Oil	2.00	While the tool service expediter was dropping off some thread protectors at the stores yard, the vehicle quit. He got out to see why the vehicle had quit and noticed a short trail of oil behind him, he looked under the truck and noticed a pool of motor oil and the oil pan plug missing. O I Compliance was notified and the cleanup took place using their recommendations. Lesson Learned: On all equipment e PM's and maintenance ensure proper torque is applied to seal fittings, plugs and connections per manufacturers recomendations to prevent leakage.		Non haz. contaminated snow was taken to pad 3.	Oil pan plug in Vehicle become loose and fell out of oil pan causing approx. 2 gal. of motor oil to leak on to gravel pad.
1/22/95	1995-IR-98519	MCC Fuel Dock	Diesel	2.00	"The hose on a vehicle's fuel pump broke during fueling, causing material to release onto snow-covered gravel pad."	The contaminated snow was removed with handshovels. - The contaminated snow was placed into designated dumpster at Fuel Dock and will be melted and reused in wellwork activities.		"The hose on a vehicle's fuel pump broke during fueling, causing material to release onto snow-covered gravel pad."
8/17/92	1992-IR-97758	Drill Site 11	Diesel	2.00	"During a pressure test on the hardline, material sprayed from the line due to an obstruction on the line threads."	Metis/Cleanup		"During a pressure test on the hardline, material sprayed from the line due to an obstruction on the line threads."
7/22/92	1992-IR-86667	Well Pad Y	Lube Oil	2.00	A generator unit (#80-601/BP owned) was found leaking lube oil while in operation outside the well house. Contaminated material was shoveled into bags and taken to A3W2 rinse tank. A surface liner should have been placed under the unit at start-up.		Contaminated material taken to A3/W2 rinse tank.	Generator unit was found leaking lube oil while in operation outside the wellhouse. Trailer #80-601(BP's unit).
9/30/93	1993-IR-89867	Drill Site 13	Diesel	2.00	While freeze protecting, there was a possible loss of diesel from the process. Possible hole in the herculite.		The contaminated gravel was taken to A.I.C. for incineration. The gravel will be re-used in pad maintenance.	While freeze protecting, there was a possible loss of diesel from the process. Possible hole in the herculite.
3/15/98	1998-IR-98783	Drill Site 15	Crude Oil	2.00	"During normal operations, the instrumentation bleed ring flange failed and leaked crude into the wellhouse."	"The tree, house and grating was cleaned with hot water pressure and absorbents. The cellar will be cleaned during summer pad clean-up. The absorbants were placed in oily waste bags and disposed of in the FS3 oily waste dumpster on 3/15/98. - Absorban		"During normal operations, the instrumentation bleed ring flange failed and leaked crude into the wellhouse."
1/16/96	1996-IR-100643	Point MacIntyre	Seawater	2.00	The thermal relief valve off a pig receiver was discovered to be leaking on to the snow covered gravel pad.	Handshovels were used to remove the contaminated snow. - The contaminated snow was taken to Pad 3 E. Pit on 1/16/96 to be held for future remediation.		The thermal relief valve off a pig receiver was discovered to be leaking on to the snow covered gravel pad.
1/14/95	1995-IR-98496	Drill Site 12	Methanol	2.00	Connection on manifold was knocked loose to allow movement to connect to hardline and was not re-tightened.	Shovels and front end loader were used to pick up contaminated snow and ice. - SRT to take to Pad 3.		Connection on manifold was knocked loose to allow movement to connect to hardline and was not re-tightened.
5/17/94	1994-IR-98188	West Dock	Diesel	2.00	Broken fuel line caused truck to quit running. Diesel dripped onto the road where the truck was stopped.	"Contaminated gravel was shoveled into bags, which were taken to L Pad to be washed. - Washed gravel will be re-used. Liquids will be re-used for freeze protection."		Broken fuel line caused truck to quit running. Diesel dripped onto the road where the truck was stopped.
3/20/93	1993-IR-98146	Drill Site 14	Crude Oil	2.00	Material sprayed out of unsecured hatch on slop trailer due to excess pressure while bleeding to trailer.	Metis/Cleanup		Material sprayed out of unsecured hatch on slop trailer due to excess pressure while bleeding to trailer.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/18/95	1995-IR-98276	Drill Site 16	Corrosion Inhibitor	2.00	Pressure gauge failed on chemical transfer tank causing material to spray out of gauge onto gravel pad.	An loader was used to remove the contaminated gravel. Absorbs were used to soak up excess fluids. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 7/20/95 to be held for future remediation. The absorbs were disposed of in oily waste		Pressure gauge failed on chemical transfer tank causing material to spray out of gauge onto gravel pad.
4/11/97	1997-IR-98670	Central Gas Facility	Lube Oil	2.00	Pressure buildup in 1855 MI Compressor vented lube oil mist to atmosphere. Suspect clogged air filters.	Use Bobcat and Loader to remove contaminated snow. - Contaminated snow was taken to Pad 3 East Pit on 4/11/97 to be held for future melting and injection.		Pressure buildup in 1855 MI Compressor vented lube oil mist to atmosphere. Suspect clogged air filters.
9/15/96	1996-IR-98643	Central Compressor Plant	Lube Oil	2.00	Double block and bleed valve failed and leaked lube oil to a hose vented to the outside of module 4904.	Used hand shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 9/16/96 to be held for future remediation.		Double block and bleed valve failed and leaked lube oil to a hose vented to the outside of module 4904.
7/30/96	1996-IR-98298	Drill Site 05	Crude Oil	2.00	The grease fitting on the lateral valve of 5-6 flow line developed a small leak that was misting crude.	Used hand shovels to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/31/96 to be held for future remediation.		The grease fitting on the lateral valve of 5-6 flow line developed a small leak that was misting crude.
6/30/00	2000-IR-95085	Well Pad D	Seawater	2.00	While setting up for squeeze operations at well D-21, seawater was being placed into two tiger tanks. One tank (number 3) had already been filled. A tanker was dispatched to transfer approximately 125 barrels of seawater, from a previous job on F-10, to the new location. The tanker driver was instructed to place the fluid into the "inside" tank (tank number 1, the tank closest to the wellhouse). When he arrived on location, he became confused about the instructions as to which tank to pump into. He checked the volume of both tanks and decided that the original intention must have been to "top off" the outside tank and then to place the rest of the load in the empty tank. He then hooked up to, and began pumping into, the tank that was already full (90% of total capacity). As a result, the tank overfilled, spilling approximately 2 gallons onto the gravel pad. BP Environmental was notified and cleanup will be performed as soon as the tanks can be removed. The volume of fluid spilled was low because the driver had been on top of the tank monitoring the fluid level. When he felt that the tank was nearly full, he climbed off the tank to close the inlet valves. However, the driver did not know that the tank had an overflow vent. While he was closing the valves, the fluid level reached the top of the vent.	Gravel was removed with hand tools and put in accumulation bin.	Non Hazardous gravel was taken to Pad 3	A spill review was held and conclusion was two persons will be at tank pumping operations of this type.
2/28/98	1998-IR-90613	Well Pad Z	Crude Oil	2.00	Approximately 5 gallons of fluid spilled from a bleed valve during fluid transfer from a tiger tank to a vac truck. The vac truck was removing fluids from the tank as support for an acid flowback at well Z-3. The fluids consisted of a mixture of crude oil and neutralized acids. At the end of the transfer operation, the tanker driver was going to take a fluid sample from the tanker for testing prior to delivery to Pad 3. However, he inadvertently left a bleed valve open at the connection to the tank. When he shut off the vacuum to the truck's tank, fluid in the truck flowed into the transfer hose and out the bleed valve. Investigation revealed that a butterfly valve on the tanker was damaged and allowed fluid to flow from the tanker to the hose. Prompt action by a Trico employee, who was assisting the tanker driver, prevented a larger spill. BPX Environmental was notified and the spill was cleaned up. See attached spill report. See action-item comments below for more detail.		The spilled material was from downhole and is exempt. The exempt clean-up material was taken to Pad 3 for disposal.	A butterfly seal failed on a Peak vacuum truck, allowing 5 gallons of crude/acid flowback to leak into
6/4/95	1995-IR-98507	Flow Station 1	MEG	2.00	"Fan belt on pickup truck broke, causing vehicle to overheat and spill coolant onto the gravel pad."	Liquids were soaked up with sorbents. Contaminated gravel was scraped up with scratcher and bobcat. - Sorbents were disposed of in oily waste dumpster. Contaminated gravel was taken to Pad 3 West pit on 6/4/95 to hold for future remediation.		"Fan belt on pickup truck broke, causing vehicle to overheat and spill coolant onto the gravel pad."
9/14/98	1998-IR-90206	GC-1 Gas Section	MEG	2.00	Operator detected leak in glycol heat trace in Skid 22. Operator immediately isolated system and installed containment. Notified environmental.		Non-hazardous gravel was taken to ARCO pad 3 for disposal.	A fitting on the heat trace system at GC1 skid 22 leaked approximatly 2 gallons of MEG onto the pad.
10/30/93	1993-IR-97390	Pad 10	MEG	2.00	Radiator hose on vac truck ruptured. Drip pan was in place but wind blew fluid away from the pan.	Metis/Cleanup		Radiator hose on vac truck ruptured. Drip pan was in place but wind blew fluid away from the pan.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/10/95	1995-IR-85854	Niakuk Pad	Diesel	2.00	Fuel nozzle cracked when it was turned on during normal fueling operations of Fuel Truck 32-104. The contaminated material was scraped up with a bucket loader. The contaminated materials was placed in the MCC lined dike area where it will be stored until a time when it will be melted and used in drill site maintenance. Two (2) gallons of diesel were spilled. Ref: Spill Report No. 95-016		The contaminated material was placed in the MCC lined dike area where it will be stored until a time when it will be melted and re used in drillsite maintenance.	A fuel nozzel cracked when it was turned on during normal fueling operations of fuel truck 32-104.
7/27/93	1993-IR-88666	GC-3 LPS Section	Crude Oil	2.00	The LPX WHRU pumps shutdown due to the field-wide power outage. One LPS turbine continued to run; the WHR system overpressured and the reliefs lifted. A small amount of crude oil spilled. This oil was trapped in a dead leg under the skid 461 PSVs.		Contaminated gravel taken to Pad 3.	Power system failure caused waste heat recovery system to overpressure due to lack of circulation.
2/8/96	1996-IR-98660	Drill Site 12	Diesel	2.00	Exact cause and source are unknown. Spilled material was discovered on snow covered gravel pad.	A loader and scratcher were used to remove the contaminated snow - The contaminated snow was taken to Pad 3 East Pit on 2/8/96 to be held for future injection.		Exact cause and source are unknown. Spilled material was discovered on snow covered gravel pad.
10/19/99	1999-IR-98339	Drill Site 15	Crude Oil	2.00	"Ice plug in a 3/4"" valve blew out after disconnecting a hose being used for artificial lift."	The SRT responded to the spill. The bobcat was used to scrape up the contaminated material and placed it into an auto car dump box.	The material was taken to pad 3 for disposal.	"Ice plug in a 3/4"" valve blew out after disconnecting a hose being used for artificial lift."
4/15/95	1995-IR-98483	PBOC	Diesel	2.00	A fueling hose split on fueling truck causing material to release onto snow covered gravel pad.	A loader was used to remove the contaminated snow. - Contaminated snow was placed in a dedicated contaminated snow dumpster at the MCC Fuel Dock on 3/15/95 to be melted and re-used for freeze protect fluid.		A fueling hose split on fueling truck causing material to release onto snow covered gravel pad.
3/1/94	1994-IR-98444	Drill Site 15	Diesel	2.00	Diesel fuel pump leak on engine of portable heater. Fuel overflowed secondary containment pan.	" A bobcat and scratcher were used to cleanup the contaminated snow. Cleanup is 100% complete. - The contaminated material was taken to Pad 3 snowmelter pit on 3/1/94, for future disposal in the WIF."		Diesel fuel pump leak on engine of portable heater. Fuel overflowed secondary containment pan.
5/21/94	1994-IR-98193	Drill Site 01	Crude Oil	2.00	Grease zerk failure on lateral line valve allowed crude to spill out onto snow and ice on pad.	Contaminated snow was shoveled up and placed into bags for removal from the site. - Contaminated snow was taken to Pad 3 snowmelt pit on 5/21/94 to be held for future injection in the WIF.		Grease zerk failure on lateral line valve allowed crude to spill out onto snow and ice on pad.
6/22/95	1995-IR-98267	Drill Site 03	MEG	2.00	Broken glycol hose inside trailer on power generator. Excess fluid leaked out of generator.	"Hand shovels were used to remove contaminated gravel, absorbents were used to remove surface contamination. - Contaminated gravel disposed at Pad 3 West Pit on 6/23/95 for future remediation and absorbents disposed into NSB oily waste dumpster."		Broken glycol hose inside trailer on power generator. Excess fluid leaked out of generator.
2/24/96	1996-IR-98318	Main Construction Camp (MCC)	Diesel	2.00	Exact cause and source are unknown. Spilled material discovered on snow covered gravel pad.	A loader was used to remove the contaminated gravel. - The snow was taken to L-Pad for melting and reuse. The contaminated gravel was taken to Pad 3 West Pit on 2/28/96 to be held for future remediation.		Exact cause and source are unknown. Spilled material discovered on snow covered gravel pad.
2/26/92	1992-IR-97832	Drill Site 03	Motor Oil	2.00	Flowline froze off and caused lack of pressure cause grease to spurt out of the greasehead.	YES -		Flowline froze off and caused lack of pressure cause grease to spurt out of the greasehead.
4/19/94	1994-IR-88493	GC-3 LPS Section	Crude Oil	2.00	Surveyors reported to GC-3 supervisor that there was oil on the ground. The area was the south side of Skid 451 pipe rack. Supervisor inspection area, called insulators to remove insulation, and called roustabouts to cleaned up the area and check flange tightness.		All contaminated material was taken to Pad 3 for disposal.	Alyeska slowdown caused cooling and heating of flange, which in turn caused flange to leak.
9/24/94	1994-IR-98386	U-21 (EOA Building)	Diesel	2.00	Fuel tank on tractor trailer was overfilled and leaked while it was parked on an incline.	Metis/Cleanup		Fuel tank on tractor trailer was overfilled and leaked while it was parked on an incline.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/16/97	1997-IR-98710	Main Construction Camp (MCC)	Lube Oil	2.00	Roving security noticed the spilled material in the parking area behind wing #12 at MCC.	Used Shovels and chipping bar to clean up contaminated snow. - Contaminated snow placed in oily waste bags to be taken to Pad 3 East Pit (snow).		Roving security noticed the spilled material in the parking area behind wing #12 at MCC.
11/27/95	1995-IR-100635		Produced Water	2.00	"Slow water drip from a pitted weld area on 2""""" low point drain of production header."	"Used shovel to pick up ice mound. Placed in bag to melt ice, then poured into slop trailer. - Disposed of in slop trailer."		"Slow water drip from a pitted weld area on 2""""" low point drain of production header."
1/16/94	1994-IR-86652	Well Pad X	Crude Oil	2.00	The spill of the source was unknown. The spill was discovered by the pad operator. Contaminates were scraped up with a loader and placed in a dump truck for disposal at Arco Pad 3.		The contaminated material was taken to ARCO Pad 3.	Unknown, the spill was discovered by the pad operator (Jim Kizer) at approximately 1200.
3/2/93	1993-IR-98128	U-21 (EOA Building)	Lube Oil	2.00	"Pump was operated with the breather tube taped shut, letting the engine oil pump out."	Metis/Cleanup		"Pump was operated with the breather tube taped shut, letting the engine oil pump out."
6/10/98	1998-IR-90015	Well Pad C	Crude Oil	2.00	Lateral valve failure caused approximately 2 gallons to leak onto the gravel well pad. Super Sucker and hand tools used to clean up area. Material will be taken to Pad 3 for disposal.		RCRA-exempt material was taken to ARCO Pad 3 for disposal.	Lateral valve failure caused approximately 2 gallons to leak onto the gravel well pad.
8/9/95	1995-IR-98520	Drill Site 01	Crude Oil	2.00	Grease fitting leaking from the threaded area of the upper section of lateral valve.	Absorbs were used to pick up crude. Hand shovels were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 8/9/95 to be held for future remediation. The absorbs were disposed of in the NSB oily waste dumpste		Grease fitting leaking from the threaded area of the upper section of lateral valve.
10/23/94	1994-IR-98261	Central Gas Facility	MEG	2.00	"During preparation for hydrotest, a mis-aligned flange allowed product to escape."	"Contaminated gravel shoveled into bags. - Contaminated gravel was taken to Pad 3 West Pit on 10/23/94, to hold for future remediation."		"During preparation for hydrotest, a mis-aligned flange allowed product to escape."
6/16/92	1992-IR-97710	Drill Site 04	Diesel	2.00	Hose on slop tank slipped off and sprayed diesel onto side of trailer and the pad.	Metis/Cleanup		Hose on slop tank slipped off and sprayed diesel onto side of trailer and the pad.
6/20/96	1996-IR-98283	Drill Site 05	Diesel	2.00	Pressure testing 9 - 5/8 well casing quick-coupler separated on test manifold.	"Used hand tools, bobcat with scratcher and bucket to pick up contaminated gravel and load into SRT dump truck for transport to Pad 3. - Contaminated gravel was taken to Pad 3 West Pit on 6/20/96 to be held for future remediation."		Pressure testing 9 - 5/8 well casing quick-coupler separated on test manifold.
1/19/97	1997-IR-98691	Drill Site 04	Lube Oil	2.00	"Oil filter on vehicle blew off, spilling 2 gallons of lube oil onto the pad."	Bobcat was used to scrape up contaminated snow. Shovels were used to place snow into bags for disposal. - Contaminated snow was taken to Pad 3 East Pit on 1/19/97 for future melting and injection.		"Oil filter on vehicle blew off, spilling 2 gallons of lube oil onto the pad."
3/8/98	1998-IR-98779	Drill Site 11	Crude Oil	2.00	Loose flange on grove valve caused crude to leak onto snow covered gravel pad.	Shoveled into oil waste bags. - Contaminated snow was take to Pad 3 East Pit on 3/9/98 for future melting and injection.		Loose flange on grove valve caused crude to leak onto snow covered gravel pad.
11/12/99	1999-IR-98344	Drill Site 02	Diesel	2.00	The nozzle on the fuel truck stuck open and failed to automatically shut off.	The spill response team was called out to assist with the spill clean-up. They shoveled heavily contaminated snow into bags and used a loader to scrape up the area. The snow was put into the loader bucket and taken to the MCC fuel dock open-top tank.	The diesl contaminated snow was taken to the MCC open top tank for melt and & re-use.	The nozzle on the fuel truck stuck open and failed to automatically shut off.
1/11/93	1993-IR-87422	Well Pad B	Crude Oil	2.00	Well B-18 wing valve packing gland failed resulting in a spill. Crude sprayed the wellhouse interior and up through the wellhead access door. The result was a recordable spill on the pad surronding the wellhouse. Spill volume was about five gallons.		Contaminated snow was taken to T-Pad pit.	Packer failed on wing valve, spraying oil inside well house and out onto pad.
11/8/97	1997-IR-90492	Well Pad M	Methanol	2.00			Exempt material was taken to Arco Pad 3.	A 400' section of coiled tubing had contained methanol as freeze protection

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/4/93	1993-IR-98129	Drill Site Maintenance	Lube Oil	2.00	Oil pressure sensor line broke off and pumped the oil out the crank case.	Metis/Cleanup		Oil pressure sensor line broke off and pumped the oil out the crank case.
5/24/93	1993-IR-86728	Well Pad R	Diesel	2.00	Contractors failed to tighten line connectors properly before start up. All contaminants were picked up with shovels and bagged. Material was desposited into the A3W2 rinse tank for cleaning.		Material deposited into the A3/W2 rinse tank for cleaning	Contractors failed to tighten line connections properly before start up.
4/3/98	1998-IR-98788	Flow Station 2	Lube Oil	2.00	Stress fracture in oil pump unit caused motor oil to leak from Vehicle.	"Used shovels, bobcat and loader to pick up contaminated snow. - Contaminated snow was taken to Pad 3 East Pit for future melting and injection."		Stress fracture in oil pump unit caused motor oil to leak from Vehicle.
10/29/99	1999-IR-98342	Drill Site 15	Produced Water	2.00	Leaky valve on sump allowed material to leak onto snow packed gravel.	Scrapped up spilled material with loader bucket and placed into cutting tank (class 2 exempt material).		Leaky valve on sump allowed material to leak onto snow packed gravel.
6/18/92	1992-IR-100817	Seawater Treatment Plant	MEG	2.00	Unknown spill found near dumpster after the NSB truck left the site.	Metis/Cleanup		Unknown spill found near dumpster after the NSB truck left the site.
5/8/97	1997-IR-98679	Checkpoint - Central	Lube Oil	2.00	Drain plug in oil pan blew out while tractor trailer was in motion.	"Used absorbs to soak up oil. Scraped up contaminated gravel with forklift. - Hold contaminated gravel at Haliburton yard in covered, lined container until summer, then burn at AIC Incinerator."		Drain plug in oil pan blew out while tractor trailer was in motion.
10/26/93	1993-IR-97384	Drill Site 02	Crude Oil	2.00	Crude was sprayed out of the flow back tank due to gas entrainment.	Handshovels were used to remove the contaminated snow. Cleanup is 100% complete. - The snow was melted and recycled at Flow Station 1 on 10/26/93.		Crude was sprayed out of the flow back tank due to gas entrainment.
10/31/92	1992-IR-97821	Drill Site 14	Crude Oil	2.00	"While laying flowline down, trapped crude in the line leaked out."	Metis/Cleanup		"While laying flowline down, trapped crude in the line leaked out."
1/24/93	1993-IR-86659	Well Pad R	Lube Oil	2.00	Hose on loader leaked allowing lube oil to spill onto snow on pad. Spilled lube oil and contaminated snow were scraped up with shovels. Contaminated material was placed in plastic bags and taken to A3W2 for disposal. The hose was replaced.		Contaminated material placed into plastic bags and taken to W3W2 for disposal.	Hose on loader leaked, allowing lube oil to spill onto snow on pad.
5/30/00	2000-IR-94997	Well Pad D	Diesel	2.00	As the field fueler was fueling a Tioga heater at D-17, the automatic shut-off did not work. By the time the fueler climbed off the heater to shut down the PTO on the fuel truck, the heater fuel tank over flowed. Aproximately 2 gallons of diesel was spilled on the pad. All the necessary phone calls were made and the Spill Techs cleaned the area.	A trimmer unit was used to remove the affected gravel.	Non-hazardous material was taken to Pad 3.	The nozzle was replaced before fuel truck was put back in service.
12/19/93	1993-IR-97401	Drill Site 04	Diesel	2.00	Released from connection on treating line due to bad sealer ring.	Metis/Cleanup		Released from connection on treating line due to bad sealer ring.
11/4/93	1993-IR-97395	COTU Facility	Diesel	2.00	"While fueling vehicle, fuel loading nozzle failed to shut-off."	Handshovels and absorbs were used to remove the contaminated snow. Cleanup is 100% complete. - The fluids were recycled and absorbs taken to NSB incinerator on 11/4/93.		"While fueling vehicle, fuel loading nozzle failed to shut-off."
6/9/91	1991-IR-97451	C Pad	Lube Oil	2.00	"Equip parked all winter, warming weather caused equip to leak."	YES -		"Equip parked all winter, warming weather caused equip to leak."
2/3/93	1993-IR-98080	C Pad	Lube Oil	2.00	Material leaked from engine on contractor's truck while idling.	Metis/Cleanup		Material leaked from engine on contractor's truck while idling.
11/5/90	1990-IR-97162	Flow Station 1	Crude Oil	2.00	Lubricator at slop oil tank locked up and material sprayed out.	YES -		Lubricator at slop oil tank locked up and material sprayed out.
1/19/92	1992-IR-87240	Well Pad E	MEG	2.00	Field Services personnel were removing snow around well houses.		Bags were paced in burnable dumpster for incineration at NS landfill.	Field Services personnel were removing snow around well houses.
8/6/93	1993-IR-97957	Central Gas Facility	Diesel	2.00	Fuel system on tractor trailer rig failed and overfilled tank.	Metis/Cleanup		Fuel system on tractor trailer rig failed and overfilled tank.
6/19/90	1990-IR-96315	Drill Site 05	Seawater	2.00	"During hydrotest of common line, small leak was discovered."	YES -		"During hydrotest of common line, small leak was discovered."
5/15/92	1992-IR-87217	Well Pad F	Diesel	2.00	The source of the spill was unknown. It was found in the vicinity of F-47 by Environmental personnel making pad inspections. The contaminated snow, ice and gravel were scraped up with a motor grader and bucket loader. Contaminated materials were taken to T-pad pit.		Contaminated materials taken to T-pad pit.	Unknown, found during routine Environmental pad inspections.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/5/97	1997-IR-100656	Point MacIntyre	Crude Oil	2.00	O-ring seal failed on a lateral valve on a production well.	"A bobcat, handshovels, and chipping bars were used to remove the contaminated snow. - The contaminated snow was taken to Pad 3 East pit on 6/6/97 to be held for future injection."		O-ring seal failed on a lateral valve on a production well.
2/21/93	1993-IR-98122	Drill Site 03	Methanol	2.00	Pump packing failed while down hole to freeze protect well.	Metis/Cleanup		Pump packing failed while down hole to freeze protect well.
9/30/91	1991-IR-97580	Drill Site 05	Diesel	2.00	Excess air pressure blew material out the slop barrel vent.	YES -		Excess air pressure blew material out the slop barrel vent.
1/20/94	1994-IR-88556		Diesel	2.00	The fuel tank in the bed of Ford pickup # 13-019C developed a leak.		Contaminated materials to be taken to ARCO Pad 3.	Fuel tank in bed of Ford Pickup # 13-019C developed a leak.
1/31/95	1995-IR-98542	Drill Site 09	MEG	2.00	Antifreeze leaked from ruptured radiator hose on a pickup.	Shovels were used to scoop up contaminated snow. - Contaminated snow was taken to the Pad 3 East Pit on 1/31/95 to be held for future melting and injection.		Antifreeze leaked from ruptured radiator hose on a pickup.
5/3/96	1996-IR-98599	Drill Site 01	Methanol	2.00	Aluminum camlock fitting failed after the pump was primed.	Used hand shovels to pick up contaminated snow and gravel. - Contaminated snow and gravel was taken to L-Pad on 5/5/96 for washing and reuse.		Aluminum camlock fitting failed after the pump was primed.
11/1/92	1992-IR-97823	Drill Site 09	Methanol	2.00	A Hammer union was not tightened causing the line to leak.	Metis/Cleanup		A Hammer union was not tightened causing the line to leak.
4/26/99	1999-IR-100918	West Beach	Fresh Water	2.00	Camlock fitting broke during hydro testing of a new line.	"Snow, Ice & spilled product was cleaned up by SRT. The contaminated material was taken to pad 3 for disposal."	The material was disposed of at the pad 3 east snow melt pit.	Camlock fitting broke during hydro testing of a new line.
4/26/99	1999-IR-100918	West Beach	MEG	2.00	Camlock fitting broke during hydro testing of a new line.	"Snow, Ice & spilled product was cleaned up by SRT. The contaminated material was taken to pad 3 for disposal."	The material was disposed of at the pad 3 east snow melt pit.	Camlock fitting broke during hydro testing of a new line.
7/17/94	1994-IR-98233	Seawater Injection Plant	Seawater	2.00	"Spill was caused by a pinhole leak in 4""""" drain line."	A loader was used to remove the contaminated gravel. - The contamintated gravel was taken to Pad 3 West Temporary Pit on 7/21/94 to be held for future remediation.		"Spill was caused by a pinhole leak in 4""""" drain line."
7/18/93	1993-IR-98009	Drill Site 01	Diesel	2.00	Overfilled triplex pump due to fuel nozzle sticking open.	Metis/Cleanup		Overfilled triplex pump due to fuel nozzle sticking open.
10/10/92	1992-IR-97806	G&I Facility	Diesel	2.00	"While bleeding annulus, mist carryover stained gravel."	Metis/Cleanup		"While bleeding annulus, mist carryover stained gravel."
11/15/93	1993-IR-100902	Point MacIntyre	Diesel	2.00	Leaked out of bleeder valve that was not closed on pump.	Metis/Cleanup		Leaked out of bleeder valve that was not closed on pump.
7/2/92	1992-IR-97719	Seawater Injection Plant	Diesel	2.00	Broke intake line on tank while moving it with forklift.	Metis/Cleanup		Broke intake line on tank while moving it with forklift.
6/5/94	1994-IR-98206	Drill Site 01	Diesel	2.00	Diesel from an unknown source was discovered at DS1-33.	A loader was used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 6/10/94 to be held for future remediation.		Diesel from an unknown source was discovered at DS1-33.
1/12/93	1993-IR-97908	Drill Site 09	Diesel	2.00	Pipe lubrication from CT injector chains was windblown.	Metis/Cleanup		Pipe lubrication from CT injector chains was windblown.
12/20/92	1992-IR-97862	PBOC	Diesel	2.00	Diesel fuel return line broke on pickup in parking lot.	Metis/Cleanup		Diesel fuel return line broke on pickup in parking lot.
12/9/91	1991-IR-97605	Drill Site 09	Crude Oil	2.00	Valve was installed incorrectly on tanker suction line.	YES -		Valve was installed incorrectly on tanker suction line.
4/18/00	2000-IR-98853	Drill Site 07	Motor Oil	2.00	Sight glass on blower pump broke and leaked gear oil.	SRT recovered product with loader and placed into dump box for disposal at Pad 3.		Sight glass on blower pump broke and leaked gear oil.
12/1/92	1992-IR-97842	Drill Site 09	Produced Water	2.00	Leak in well line developed during line de-inventory	Metis/Cleanup		Leak in well line developed during line de-inventory
11/22/92	1992-IR-97736	Drill Site 13	Diesel	2.00	"While pressure testing, the hose developed a leak."	Metis/Cleanup		"While pressure testing, the hose developed a leak."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/22/92	1992-IR-97713	Drill Site 03	Methanol	2.00	A o-ring on a coil tubing skid connection blew out.	Metis/Cleanup		A o-ring on a coil tubing skid connection blew out.
9/9/92	1992-IR-97781	Drill Site 15	MEG	2.00	Material leaked from broken radiator hose on pickup	Metis/Cleanup		Material leaked from broken radiator hose on pickup
12/5/94	1994-IR-98423	U-21 (EOA Building)	Diesel	2.00	Loose fuel filter allowed diesel to drip onto pad.	Contasminated snow was shoveled into bags for removal from the site. - Contaminated snow was taken by Arctic Rentals for melting.		Loose fuel filter allowed diesel to drip onto pad.
10/21/90	1990-IR-97146	Drill Site 14	Crude Oil	2.00	Sprayed from a well when coiled tubing pulled out.	YES -		Sprayed from a well when coiled tubing pulled out.
7/29/99	1999-IR-94131	Well Pad M	Crude Oil	2.00	Tree cap bleed leaked about 2 gallons of oil. Bleed was opened to establish a double block and bleed isolation from wellhead to skid for maintenance work. Bleed had been opened for several days with no problem. Module was being hot water washed for safe out to accommodate welding repair. It appears that water migrated from the module out Well M-22 flowline and pushed residue crude past a wing valve that had lost it's seal. The Grease Crew was called and serviced the wing valve regaining the seal.		Material taken to ARCO Pad 3.	Unknown at this time why tree valves bled through.
6/10/94	1994-IR-98210	Spine Road	Diesel	2.00	The cap came off fuel tank on snow blower engine.	Metis/Cleanup		The cap came off fuel tank on snow blower engine.
3/16/91	1991-IR-97650	Drill Site 14	Crude Oil	2.00	Lost pressure in well sprayed out slop tank vent.	YES -		Lost pressure in well sprayed out slop tank vent.
4/9/92	1992-IR-97682	Central Compressor Plant	MEG	2.00	Material leaked from heater hose on supersucker.	Metis/Cleanup		Material leaked from heater hose on supersucker.
5/17/92	1992-IR-97350	Drill Site 07	Crude Oil	2.00	Cause of spill unknown. Observed on gravel pad.	Metis/Cleanup		Cause of spill unknown. Observed on gravel pad.
8/1/90	1990-IR-97063	C Pad	Diesel	2.00	"Unknown, suspect splashed off surface of drum."	YES -		"Unknown, suspect splashed off surface of drum."
1/19/90	1990-IR-97038	Checkpoint - Central	Methanol	2.00	Sloshed out of the tanker vent during transport.	YES -		Sloshed out of the tanker vent during transport.
4/16/00	2000-IR-94862	Well Pad M	Crude Oil	2.00	While conducting well testing operations, on M-24, a 1502 hammer union seal ring gasket failed resulting in approximately 2 gallons of crude oil being spilled onto the well pad. The APC Well Testing crew rigged the unit up and pressure tested to 3000 psig on the inlet piping and 1500 psig on the outlet piping. The crew began flowing the well at 2200 hours. When the well was brought on line the gas temperature was -10 F. When the seal ring gasket failed the well was flowing at a temperature of 106 F. This well was producing 29 million cubic feet of gas and 2000 barrels of oil per day. At 0400 hours, after taking the well readings and making a walk around inspection of the area, the crew heard a gas leak. They investigated the situation and discovered a leak on the seperator outlet piping just upstream of the kill flange. The well was immediately shut-in and the fluids were diverted to the flowback tank in order to depressure surface piping and to isolate the leak. BPX Environmental and WSA Safety were immediately notified of the spill. There were no injuries as a result of this incident.	The material was removed from the top layer of snow with hand shovels, the containment liner was cleaned with sorbent material.	The snow was taken to Arco Pad 3 and the sorbents were taken to the NSB oily waste dumpster.	Containment trays were present under all joints.
8/5/93	1993-IR-88747	BOC	Diesel	2.00	While doing a walk around inspection of his tractor tanker, the driver noticed that ta nker 68-239 was leaking at a weld on a manifold li ne. He immediately placed sorbent around and under th e leak and notified environmental. The driver indicated that the area leaking had been previously welded because o f leaks. The leaking manifold was removed and re-welded but it continued to leak the following day(8-6-93). It was determined that approx. two gallons of diesel fuel leaked on 8-5-93.		Contaminated gravel was taken to Arco Pad 3.	A manifold line on a tanker cracked at the weld.
3/29/95	1995-IR-98584	COTU Facility	Diesel	2.00	*Truck was overfilled during fueling procedure.	Contaminated snow was shoveled into bags and removed from the site. - Contaminated snow will be melted and material will be reused through DSM		*Truck was overfilled during fueling procedure.
10/30/91	1991-IR-97564	Drill Site 01	Diesel	2.00	Discharge due to failure of wellhead pack-offs.	YES -		Discharge due to failure of wellhead pack-offs.
8/2/99	1999-IR-98818	Drill Site 06	Crude Oil	2.00	Internal O'ring failure on low pressure pilot.	Facility personnel cleaned wellhouse with absorbs and shoveled gravel into oily waste bags.		Internal O'ring failure on low pressure pilot.
8/22/99	1999-IR-98824	Spine Road	Diesel	2.00	Part Failure (fuel filter) ARCO Loader 52-234.	Absorbants were layed down everywhere diesel was detected.		Part Failure (fuel filter) ARCO Loader 52-234.
5/9/92	1992-IR-97341	Drill Site 17	Produced Water	2.00	Material released from flange on common line.	Metis/Cleanup		Material released from flange on common line.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/11/90	1990-IR-96978	Drill Site 14	Diesel	2.00	Overfilled tank while preparing for wellwork.	YES -		Overfilled tank while preparing for wellwork.
3/28/92	1992-IR-97879	Drill Site 14	Crude Oil	2.00	Crude sprayed from tank during wireline work.	YES -		Crude sprayed from tank during wireline work.
7/21/92	1992-IR-91075	WSW	Seawater	2.00	Scrubber pot (lined drain pot) for Rig 16 was overfilled. A loader was used to scrape up the contaminated material and then was taken to Arco Pad 3 solids pit.		Contaminated material taken to Arco pad 3 solids pit.	Scrubber pot (line drain pot) was overfilled.
4/19/94	1994-IR-98165	Drill Site 17	Diesel	2.00	Triplex pump leaked while being transported.	Bobcat with trimmer were used to remove the contaminated material. - The material was taken to Pad 3 West pit on 4/20/94 for future remediation.		Triplex pump leaked while being transported.
6/26/91	1991-IR-100777		Diesel	2.00	Sprayed from faulty compressor fuel fitting.	YES -		Sprayed from faulty compressor fuel fitting.
8/23/91	1991-IR-97320	Drill Site 06	Diesel	2.00	"Contaminated gravel sited, source unknown."	YES -		"Contaminated gravel sited, source unknown."
8/23/92	1992-IR-91074	BOC Pad	Diesel	2.00	Fuel Tank mounting configuration inadequate. Contaminated material scraped up with bucket loader and transported to T-Pad disposal pit.		Contaminated material transported to T-Pad disposal pit.	Fuel tank mounting configuration inadequate.
5/5/95	1995-IR-98488	PBOC	MEG	2.00	Radiator hose on parked pickup truck broke.	Sorbents were used to soak up fluids - Sorbents were placed in oily waste dumpster		Radiator hose on parked pickup truck broke.
1/7/99	1999-IR-100920	Lisburne Production Center	Crude Oil	2.00	Erosion caused a leak in a desander nozzle.	The water was disposed of in 4923 sump.		Erosion caused a leak in a desander nozzle.
9/28/91	1991-IR-97577	Drill Site 11	Diesel	2.00	Leak from triplex tank overflowed drip pan.	YES -		Leak from triplex tank overflowed drip pan.
4/11/90	1990-IR-96966	Flow Station 2	MEG	2.00	Radiator punctured due to vehicle accident.	YES -		Radiator punctured due to vehicle accident.
4/21/91	1991-IR-97305	Flow Station 2	Lube Oil	2.00	1801 comp. seal oil & lube oil vents blew.	YES -		1801 comp. seal oil & lube oil vents blew.
11/24/99	1999-IR-98347	Drill Site 11	Lube Oil	2.00	Loose fitting on oil pan caused oil leak.	SRT scraped up the areas and shoveled into the bobcat dump box. Sorbents were used on some of the heavier areas.		Loose fitting on oil pan caused oil leak.
7/5/93	1993-IR-97995	Drill Site 16	Seawater	2.00	Holes in tubing allowed material to leak.	Metis/Cleanup		Holes in tubing allowed material to leak.
11/23/91	1991-IR-97591	Drill Site 07	Diesel	2.00	Leak in Triplex pump line to diesel tank.	YES -		Leak in Triplex pump line to diesel tank.
6/9/95	1995-IR-98509	Sag River	MEG	2.00	Radiator hose on a water truck ruptured.	Metis/Cleanup		Radiator hose on a water truck ruptured.
4/23/91	1991-IR-97309	Drill Site 09	Crude Oil	2.00	Hatch on tanker opened during transport.	YES -		Hatch on tanker opened during transport.
7/29/91	1991-IR-97509	U-21 (EOA Building)	Diesel	2.00	Fuel tank on truck leaked due to damage.	YES -		Fuel tank on truck leaked due to damage.
7/22/99	1999-IR-98814	Spine Road	MEG	2.00	Heater hose on truck failed due to cut.	Area cleaned up with DSM loader & SRT dump box and hauled to Pad 3 West Pit.		Heater hose on truck failed due to cut.
7/20/90	1990-IR-97047	Drill Site 09	Diesel	2.00	Needle valve left open on Tritant pump.	YES -		Needle valve left open on Tritant pump.
8/29/91	1991-IR-97326	Drill Site 09	Seawater	2.00	Vent valve on pig reciever left opened.	YES -		Vent valve on pig reciever left opened.
11/21/92	1992-IR-97734	Drill Site 03	Methanol	2.00	Frozen seal in pipe connection leaked.	Metis/Cleanup		Frozen seal in pipe connection leaked.
10/8/90	1990-IR-97131	Hot Water Plant	Diesel	2.00	Splashed from nozzle when it shut off.	YES -		Splashed from nozzle when it shut off.
5/12/90	1990-IR-96980	West Dock Road	Diesel	2.00	Suspect leaked from compressor nearby.	YES -		Suspect leaked from compressor nearby.
7/28/94	1994-IR-98238	MCC Fuel Dock	Diesel	2.00	Diesel spill discovered at Fuel Dock.	Shovels were used to pick up contaminated gravel. - Contaminated gravel was taken to Pad 3 West Pit on 7/29/94 to be held for future remediation.		Diesel spill discovered at Fuel Dock.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/27/91	1991-IR-97596	Hot Water Plant	Methanol	2.00	Leak from crack on the mobile tanker.	YES -		Leak from crack on the mobile tanker.
1/15/94	1994-IR-98199	Central Gas Facility	Lube Oil	2.00	Hub line/fitting on D7 Dozer failed.	Metis/Cleanup		Hub line/fitting on D7 Dozer failed.
8/7/92	1992-IR-97375	MCC Fuel Dock	Diesel	2.00	Overfilled fuel tank at Fuel Island.	Metis/Cleanup		Overfilled fuel tank at Fuel Island.
6/29/90	1990-IR-97026	Drill Site 02	Diesel	2.00	Leak in maintenance truck fuel tank.	YES -		Leak in maintenance truck fuel tank.
4/11/90	1990-IR-96967	Drill Site 03	Seawater	2.00	Sump filled up but sump pump failed.	YES -		Sump filled up but sump pump failed.
8/30/91	1991-IR-97327	Drill Site 04	Crude Oil	2.00	Sprayed from loose fitting on valve.	YES -		Sprayed from loose fitting on valve.
11/6/00	2000-IR-95572	Drill Site 13	Crude Oil	2.00	While Drill Site operator was re-positioning slop oil tank to well #36 approximately 2 gallons of crude oil from tank overflow containment pan splashed out onto pad, creating a trail apprx. 50' x 3" on pad. Containment was not checked prior to moving trailer.	Removed grating from well cellar and cleaned cellar with SuperSucker. Wiped down walls in well house with sorbents and rags.	Pad 3 West Pit for gravel. Hot water plant dumpster for oily waste.	Charge Code #F56DSC used for cleanup
2/10/92	1992-IR-97869	Drill Site 14	Crude Oil	2.00	Wireline lubricator O-ring failed.	YES -		Wireline lubricator O-ring failed.
2/28/94	1994-IR-100627		Crude Oil	2.00	Mist carryover from module vents.	Handshovels were used to remove the snow and material. - Material was reused at LPC on 2/28/94.		Mist carryover from module vents.
4/4/00	2000-IR-100675	Lisburne Production Center	Lube Oil	2.00	Engine on air compressor blew up.	The spill response team cleaned up the spill with a loader.		Engine on air compressor blew up.
10/27/92	1992-IR-97819	Spine Road	Diesel	2.00	Ruptured fuel line on mast truck.	Metis/Cleanup		Ruptured fuel line on mast truck.
6/2/90	1990-IR-97006	Drill Site 11	Crude Oil	2.00	Lateral valve on wellhead leaked.	YES -		Lateral valve on wellhead leaked.
11/21/98	1998-IR-100912	PBOC	Diesel	2.00	Vehicle fuel filter gasket leak.	Sorbents and snow were used to pick up the liquid and the bobcat with a trimmer was used to remove the contaminated gravel and snow. The sorbents were placed in oily waste bags for disposal and the snow and gravel was manifested to pad 3 for disposal. -		Vehicle fuel filter gasket leak.
8/6/93	1993-IR-97958	MCC Fuel Dock	Diesel	2.00	Overfilled fuel tank on vehicle.	Absorbents and a front end loader were used to remove the contaminated material. Cleanup is 100% complete. - The contaminated material was taken to the Pad 3 West Temporary Pit on 8/6/93 to be held for future remediation.		Overfilled fuel tank on vehicle.
2/4/93	1993-IR-98090	Airport	MEG	2.00	Radiator hose on a bus ruptured.	Metis/Cleanup		Radiator hose on a bus ruptured.
11/23/90	1990-IR-97185	Drill Site 11	Crude Oil	2.00	Oil dripped off of sheave wheel.	YES -		Oil dripped off of sheave wheel.
2/15/93	1993-IR-98110	Drill Site 03	MEG	2.00	Spill discovered-cause unknown.	Metis/Cleanup		Spill discovered-cause unknown.
1/14/93	1993-IR-97927	Drill Site 11	Crude Oil	2.00	Grease zerk on valve lost seal.	Metis/Cleanup		Grease zerk on valve lost seal.
2/6/93	1993-IR-97411	Spine Road	MEG	2.00	Heater hose on pickup ruptured.	Metis/Cleanup		Heater hose on pickup ruptured.
2/28/90	1990-IR-97236	C Pad	Methanol	2.00	Weld failed on tanker manifold.	YES -		Weld failed on tanker manifold.
2/20/91	1991-IR-97628	Drill Site 02	Diesel	2.00	Leaky fitting on suction valve.	YES -		Leaky fitting on suction valve.
4/23/90	1990-IR-96889	Drill Site 16	Diesel	2.00	Leaked from a heater fuel tank.	YES -		Leaked from a heater fuel tank.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/6/95	1995-IR-98517	Main Construction Camp (MCC)	Diesel	2.00	Leaking fuel line on crew bus.	Absorbs were used to pick up diesel. Hand shovels were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit to be held for future remediation. The absorbs were disposed of in the NSB oily waste dumpster.		Leaking fuel line on crew bus.
2/19/93	1993-IR-98120	Drill Site 12	Seawater	2.00	Leak from flange on frac tank.	Metis/Cleanup		Leak from flange on frac tank.
9/7/91	1991-IR-100783		Diesel	2.00	Leak from hardline connection.	YES -		Leak from hardline connection.
10/17/90	1990-IR-97140	Drill Site 04	Seawater	2.00	Lateral flowline valve leaked.	YES -		Lateral flowline valve leaked.
7/25/90	1990-IR-97052	Drill Site 12	Diesel	2.00	Lubricator grease head leaked.	YES -		Lubricator grease head leaked.
10/23/99	1999-IR-98341	Drill Site 11	Crude Oil	2.00	Slop oil trailer overfilled.	The SRT responded and used a loader to scrape up the material.	The material was placed into an auto car dump box and manifested to pad 3.	Slop oil trailer overfilled.
2/4/96	1996-IR-98655	Drill Site 11	Diesel	2.00	Fuel line ruptured on truck.	Used loader scratcher and bucket to pick up contamiated snow and gravel. - Contaminated snow and gravel taken to Pad 3 West Pit on 2/6/96.		Fuel line ruptured on truck.
12/9/90	1990-IR-100752		Diesel	2.00	Seal failed on stuffing box.	YES -		Seal failed on stuffing box.
6/8/90	1990-IR-97011	COTU Facility	Crude Oil	2.00	Discharged from end of pipe.	YES -		Discharged from end of pipe.
5/2/90	1990-IR-96897	Drill Site 09	Lube Oil	2.00	Motor oil leaked from crane.	YES -		Motor oil leaked from crane.
4/14/91	1991-IR-97228	U-21 (EOA Building)	MEG	2.00	Leak from cracked drum seal.	YES -		Leak from cracked drum seal.
1/7/93	1993-IR-97892	J Pad	Methanol	2.00	Overfilled methanol tanker.	Metis/Cleanup		Overfilled methanol tanker.
8/18/91	1991-IR-97317	COTU Facility	Diesel	2.00	Overfilled truck fuel tank.	YES -		Overfilled truck fuel tank.
11/2/91	1991-IR-97566	Drill Site 16	Crude Oil	2.00	Leak from camlock fitting.	YES -		Leak from camlock fitting.
4/21/91	1991-IR-97306	Drill Site 01	Lube Oil	2.00	Vehicle leaked motor oil.	YES -		Vehicle leaked motor oil.
5/28/90	1990-IR-97001	Well Pad, Roads	Crude Oil	2.00	Faulty high level control	YES -		Faulty high level control
7/2/95	1995-IR-98271	PBOC	MEG	2.00	Truck engine overheated.	Absorbs were used to pick up freestanding glycol. Handshovels were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 7/2/95 to be held for future remediation. The absorbs were disposed of in NSB oily was		Truck engine overheated.
7/23/93	1993-IR-97947	Pad 10	Diesel	2.00	Diesel tanks overfilled.	Metis/Cleanup		Diesel tanks overfilled.
7/9/92	1992-IR-97741	Central Compressor Plant	Diesel	2.00	Damaged fuel hose line.	Metis/Cleanup		Damaged fuel hose line.
6/9/91	1991-IR-97450	Hot Water Plant	MEG	2.00	Radiator hose ruptured.	YES -		Radiator hose ruptured.
11/7/90	1990-IR-97164	Seawater Injection Plant	Lube Oil	2.00	Leaked from generator.	YES -		Leaked from generator.
2/22/92	1992-IR-87961	GC-1 Pad	MEG	2.00	The GC-1 Rover found a small glycol spill on the snow under an outside pipe rack while making his inspection rounds on the pad. The glycol was determined to be coming from a heat trace line in the pipe rack overhead. The spill was reported, and a job request was written to repair the leak.		Contaminated material taken to A3/W2 melt tank.	Heat trace line broke.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/19/93	1993-IR-98043	C Pad	Diesel	2.00	Overfilled fuel tank.	Metis/Cleanup		Overfilled fuel tank.
7/19/90	1990-IR-97046	Drill Site 04	Diesel	2.00	Leaking stuffing box.	YES -		Leaking stuffing box.
9/6/91	1991-IR-97539	Flow Station 3	Diesel	2.00	Overfilled fuel tank.	YES -		Overfilled fuel tank.
5/23/90	1990-IR-100883		Crude Oil	2.00	Overfilled drip pan.	YES -		Overfilled drip pan.
3/17/91	1991-IR-97653	Drill Site 16	Diesel	2.00	Stuffing box leaked.	YES -		Stuffing box leaked.
5/22/99	1999-IR-98797	Drill Site 15	Diesel	2.00	Fuel line rupture.	The spill was cleaned up by Peak and the spill response team.	2 cu yds of material was disposed of at pad 3 west temp gravel pit and 1 cu yd snowmelt tank behind MCC fuel island.	Fuel line rupture.
12/24/91	1991-IR-97611	COTU Facility	Diesel	2.00	Overfilled tanker.	YES -		Overfilled tanker.
10/8/96	1996-IR-98649	Checkpoint - Central	Diesel	2.00	Broken fuel line.	Contaminated gravel was taken to Pad 3 West Pit on 10/10/96 to be held for future remediation.		Broken fuel line.
6/18/91	1991-IR-97465	Flow Station 3	Diesel	2.00	Overfilled tank.	YES -		Overfilled tank.
10/29/89	1989-IR-96803	Spine Road, Not specified	Diesel	2.00	"Unknown, suspect it was due to fuel transport tanker enroute to site."	Not specified	Not specified	Not specified
10/4/89	1989-IR-96777	Flow Station 1, Not specified	Crude Oil	2.00	"While loading crude, tank truck was not level and crude spilled out"	Not specified	Not specified	Not specified
9/23/89	1989-IR-96768	Drill Site 16, Not specified	Diesel	2.00	"2""""" Camlock hose clamp leaked after Triplex door blew against it"	Not specified	Not specified	Not specified
6/2/89	1989-IR-96664	Drill Site 01, Not specified	Crude Oil	2.00	Crude oil carryover during depressurization of sump well vent line.	Not specified	Not specified	Not specified
10/31/89	1989-IR-100860	Not specified	Methanol	2.00	Did not fully drain W/L lubricator prior to pulling it off.	Not specified	Not specified	Not specified
7/16/89	1989-IR-96723	Drill Site 07, Not specified	Crude Oil	2.00	Observed material on pad after rig was moved off location.	Not specified	Not specified	Not specified
10/16/89	1989-IR-96790	Drill Site 02, Not specified	Crude Oil	2.00	Unexpected gas returns resulted in gas/oil being vented.	Not specified	Not specified	Not specified
7/15/89	1989-IR-100801	Not specified	Diesel	2.00	Triplex pump developed leak at the pump discharge.	Not specified	Not specified	Not specified
6/19/89	1989-IR-96687	Drill Site 01, Not specified	Crude Oil	2.00	Suspect leak from slop oil tank at location prior.	Not specified	Not specified	Not specified
7/14/89	1989-IR-96718	COTU Facility, Not specified	Diesel	2.00	Vehicle fuel hose did not automatically shut-off.	Not specified	Not specified	Not specified
7/19/89	1989-IR-96726	Drill Site 03, Not specified	Diesel	2.00	Material leaked from small hole on a faulty hose.	Not specified	Not specified	Not specified
8/8/89	1989-IR-96747	Flow Station 1, Not specified	Lube Oil	2.00	Lube oil leaked from loose tubing connections.	Not specified	Not specified	Not specified
6/18/89	1989-IR-96681	Drill Site 18, Not specified	Diesel	2.00	Leaked from faulty hardline o-ring.	Not specified	Not specified	Not specified
6/21/89	1989-IR-96690	Drill Site 02, Not specified	Diesel	2.00	Sprayed from faulty relief valve.	Not specified	Not specified	Not specified
3/30/89	1989-IR-96937	Drill Site 09, Not specified	Crude Oil	2.00	Hardline elbow leak	Not specified	Not specified	Not specified
4/12/89	1989-IR-96617	Drill Site 14, Not specified	Crude Oil	2.00	Excessive flow mist	Not specified	Not specified	Not specified
8/12/81	1981-IR-96055	Flow Station 1, Not specified	Diesel	2.00	Line removed fm sit	Not specified	Not specified	Not specified
10/3/87	1987-IR-96367	G&I Facility, Not specified	Diesel	2.00	Spilt out of triple	Not specified	Not specified	Not specified
7/15/85	1985-IR-95928	Sag River, Not specified	Crude Oil	2.00	Truck to full of cr	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/4/88	1988-IR-96404	Central Compressor Plant, Not specified	Lube Oil	2.00	Trap malfunctioned	Not specified	Not specified	Not specified
6/24/88	1988-IR-96439	Central Compressor Plant, Not specified	Lube Oil	2.00	Ctrl switch failed	Not specified	Not specified	Not specified
6/28/87	1987-IR-96194	Drill Site 03, Not specified	Crude Oil	2.00	Valve leak on tank	Not specified	Not specified	Not specified
7/30/88	1988-IR-96398	Drill Site 07, Not specified	Diesel	2.00	Coiled tubing leak	Not specified	Not specified	Not specified
3/20/89	1989-IR-96931	Flow Station 3, Not specified	MEG	2.00	Radiator hose leak	Not specified	Not specified	Not specified
6/24/88	1988-IR-96440	Drill Site 02, Not specified	Diesel	2.00	Drained from hose	Not specified	Not specified	Not specified
2/3/88	1988-IR-96565	Drill Site 03, Not specified	Diesel	2.00	Sprayed from vent	Not specified	Not specified	Not specified
5/24/88	1988-IR-96356	Drill Site 05, Not specified	Crude Oil	2.00	Sprayed from hose	Not specified	Not specified	Not specified
3/30/89	1989-IR-96939	Drill Site 05, Not specified	Crude Oil	2.00	Sprayed from vent	Not specified	Not specified	Not specified
11/9/88	1988-IR-96263	Drill Site 06, Not specified	Diesel	2.00	Pressure released	Not specified	Not specified	Not specified
6/13/88	1988-IR-96425	Drill Site 16, Not specified	Diesel	2.00	Sprayed from vent	Not specified	Not specified	Not specified
9/16/88	1988-IR-96507	Drill Site Maintenance, Not specified	MEG	2.00	Tubes not drained	Not specified	Not specified	Not specified
6/11/88	1988-IR-96420	Drill Site 09, Not specified	Crude Oil	2.00	Discovered sheen	Not specified	Not specified	Not specified
4/28/83	1983-IR-96109	Drill Site 12, Not specified	Crude Oil	2.00	Found oil on pad	Not specified	Not specified	Not specified
10/29/88	1988-IR-96541	Drill Site 13, Not specified	Crude Oil	2.00	Sprayed out tank	Not specified	Not specified	Not specified
7/30/88	1988-IR-96397	Drill Site 18, Not specified	Crude Oil	2.00	Truck overturned	Not specified	Not specified	Not specified
8/31/88	1988-IR-96493	Flow Station 1, Not specified	Crude Oil	2.00	Hose not drained	Not specified	Not specified	Not specified
12/11/86	1986-IR-96171	Pad 10, Not specified	Methanol	2.00	Hose disconected	Not specified	Not specified	Not specified
1/23/88	1988-IR-100721	Not specified	Motor Oil	2.00	Power unit leak	Not specified	Not specified	Not specified
2/22/89	1989-IR-96835	Drill Site 06, Not specified	Diesel	2.00	O ring failure	Not specified	Not specified	Not specified
4/23/89	1989-IR-96626	Drill Site 13, Not specified	Motor Oil	2.00	Packing failed	Not specified	Not specified	Not specified
12/11/88	1988-IR-96568	Flow Station 1, Not specified	Crude Oil	2.00	Hatch unlocked	Not specified	Not specified	Not specified
1/18/89	1989-IR-96702	Flowstation Common Lines, Not specified	Crude Oil	2.00	Corrosion leak	Not specified	Not specified	Not specified
4/19/89	1989-IR-96624	PBOC, Not specified	MEG	2.00	Drum punctured	Not specified	Not specified	Not specified
3/10/88	1988-IR-96605	Drill Site 12, Not specified	Diesel	2.00	Packing leak	Not specified	Not specified	Not specified
10/18/88	1988-IR-96532	Flow Station 2, Not specified	Crude Oil	2.00	Valve leaked	Not specified	Not specified	Not specified
8/7/88	1988-IR-96409	Drill Site 03, Not specified	Diesel	2.00	Pump leaked	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/14/88	1988-IR-96571	Flow Station 2, Not specified	Crude Oil	2.00	Hose leaked	Not specified	Not specified	Not specified
12/15/88	1988-IR-96573	Flow Station 2, Not specified	Crude Oil	2.00	Tank leaked	Not specified	Not specified	Not specified
6/11/88	1988-IR-96421	Well Pad, Roads, Not specified	Crude Oil	2.00	Flange leak	Not specified	Not specified	Not specified
8/6/88	1988-IR-96407	COTU Facility, Not specified	Diesel	2.00	Valve leak	Not specified	Not specified	Not specified
6/28/87	1987-IR-96193	Drill Site 04, Not specified	Diesel	2.00	Valve leak	Not specified	Not specified	Not specified
7/29/88	1988-IR-96396	Drill Site 18, Not specified	Diesel	2.00	Unknown	Not specified	Not specified	Not specified
5/6/91	1991-IR-97286	Drill Site 05	Crude Oil	2.00	Unknown.	YES -		Unknown.
3/4/92	1992-IR-87252		Lube Oil	2.00	Lube oil was found on the pad from an unknown source. VMS personnel were counseled on maintenance checks of vehicles.		Contaminated material taken to A3/W2 melt tank.	Unknown.
10/18/00	2000-IR-95495	Well Pad E	Methanol	2.00	The Dowell coil crew spilled an estimated 2 gallons of 60/40 methanol while filling their lubricator prior to the pressure test on a fishing operation. The crew had rigged up 3 joints of 7 inch lubricator on E-Pad, well #16. The Whitey valve on 1 section of the lubricator had been broken off and was not recognized during the rig up of the unit (not every joint of lubricator has a valve port). After the lubricator and injector head were installed on the wellhead, the lubricator was fluid packed with 60/40 methanol in order to pressure test the system. While the lubricator was being filled with 60/40 methanol, fluid was released from the lubricator where the Whitey valve was broken off. Methanol was spilled onto the back corner of the wellhouse and onto the snow covered pad. The crew immediately shutdown the pressure test and contacted APC Safety. Absorb material was used to begin cleaning up the spilled fluid. The crew removed the threads of the valve from the lubricator port and installed a new Whitey valve. The environmental department was notified of the spill and clean up activities were initiated. The spill has been estimated at 2 gallons of 60/40 methanol on the pad. The tundra was in no way effected.	Gravel was shoveled into oily waste bags with hand tools. Absorbents used initially and placed in oily waste bags.	2 ea.-55 gallon drums of methanol contaminated gravel will be disposed of offsite in Haz-waste shipment. Absorbent and contaminated oily waste bags will be sent out with gravel, all treated as hazardous waste.	none
1/2/99	1999-IR-93394	Well Pad E	Drilling Mud	2.00	The driver had finished sucking out the cuttings tank and shut down the vacuum on the supersucker. After the system had lost its vacuum, returned drilling fluids began to leak through the inpsection door on the solids tube. The remaining fluid was caught in a trash can and recycled to the cuttings tank. The spill was cleaned up & the contaminated gravel, snow & drilling fluid was disposed off in the cuttings tank. The spill was reported to environmental & the on call BP drilling engineering supervisor. The leak occured as the result of fluid and cuttings being allowed to build up in the solids tube on the supersucker. After the supersucker loaded, the fluid level in the solids tube was in contact with the inspection door. The inspection door is a non-sealing door and subsequently began leaking after the vacuum was turned off . The high level of fluid/cuttings in the solid tube prior to loading should have been caught during the pre-trip inspection. Lesson Learned: Always ensure SOP's are followed and equipment is checked prior to operation, i.e. doors, gaskets, hoses etc.	Impacted snow and gravel was first sorbed, then removed from pad with shovels. All impacted material was removed.	Impacted snow and gravel was placed in the cuttings tank.	None
3/31/00	2000-IR-94815	Well Pad C	Methanol	2.00	The APC Well Testing Unit was rigging down the unit at C-Pad, well #18a, when approximately 2 gallons of methanol was spilled onto the pad. During the rig down operation an air actuated inlet valve was cycled in order to line up for a hot diesel circulation to flush the hardline. When air pressure is supplied to the inlet valve it opens and when the air is relieved it closes. The air pressure relief line has been routed to the 35 barrel methanol tank with 1/2 inch tubing. Prior to cycling the inlet valve, the crew had filled the methanol tank to a total volume of 30 barrels. When the valve was actuated and the pressure was relieved into the methanol tank fluid was force out of the vent line of the tank.	The affected snow was removed with hand tools. The affected gravel was removed with a jack hammer.	The snow was melted and the fluids were reused. The gravel will be disposed of as hazardous waste.	
6/23/00	2000-IR-95065	Well Pad D	Crude Oil	2.00	D pad operator discovered oil leaking from the S-riser guage on D-11 well. The gauge had not been struck or otherwise stressed. The well had not overpressured since the previous HSE walk-thru. Operator called enviromental who estimated the spill at a little more than a gallon. The guage was replaced. The faulty gauge was made by 3D.	Gravel was removed with hand tools.	The exempt gravel was placed in the accumulation bin on Santa Fe pad for disposal at Pad 3.	
9/3/00	2000-IR-95336	Spine Road	Drilling Mud	2.00	During a rig move from DS 15 to H Pad, a 2 gallon mud spill occured. Drilling mud had gotten trapped between the auger trough and the auger trough housing box. During the move, the rig pulled over at Pump Station 1 on the Spine Road. As the rig pulled over, the pits module leaned to the auger shoot side and fluid drained onto the gravel road. SRT was called out and spill cleaned up. Source of mud into the auger remains unknown.	Loader and hand tools were used to clean affected gravel.	Contaminated gravel was taken to acculumation bin. Final disposal will be Pad 3	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/25/94	1994-IR-88307	Well Pad F	Corrosion Inhibitor	2.00	Chemical delivery truck driver was preparing to off load corrosion inhibitor (RU-205) at F-Pad skid #54. Containment dike with absorb was in place. When the truck driver was unspooling the fill hose from the truck, the dry-lock fitting came off the end of the hose. It is suspected from the investigation that one of the retaining locks on the cam-lock fitting had inadvertantly been released permitting the dry-lock fitting to come off. There was fluid present in the hose which was then spilled in the containment dike and on the snow covered pad. It is undetermined as to whether the fluid was present in the hose due to the truck driver's failure to completely evacuate the hose after the last chemical delivery or whether the tank outlet block valve may have been leaking by slightly. This incident resulted in approximately 2 gallons of fluid being spilled onto the snow covered pad.		Contaminated snow placed in a hopper at Santa Fe Pad. Non Hazardous Materials.	
3/4/00	2000-IR-94694	BOC Pad	Diesel	2.00	Vehicle # 14-494 experienced a failed gasket on the fuel filter housing which caused a 2 gallon fuel spill in the parking area. It was un-noticed at this time.	The affected snow was sraped up using hand tools. The affected gravel was removed using a trimmer unit.	Diesel contaminated snow was melted for re-use. The gravel was taken to Pad 3.	
4/25/00	2000-IR-94907	Well Pad P	Drilling Mud	2.00	While circulating out gas/mud mixture through the rig's gas buster, the flange at the base of the gas buster stack started leaking. Approximately 2 gallons of drilling mud flowed over the side of the rig and onto the gravel Pad. The choke was shut-in and the flange inspected. The nuts/bolts were found to be loose, allowing the mud to leak past the gasket. The flange was then tightened-up and circulation continued without incident.	Material was scraped up with hand tools.	Class II material was taken to the Grind & Inject facility for disposal.	
6/10/00	2000-IR-95025	Well Pad X	Crude Oil	2.00	aprox. I gallon on unknown material leaked from a barrel (which was thought to be empty) being used as a barricade near wellhead X-9. X-9 wellhouse had been removed for wellwork. Spill report with more information to follow.	All material was cleaned up using hand tools and heavy equipment.	Approximately 5 cubic yards of gravel was taken to Pad-3 for disposal.	
1/28/00	2000-IR-94594	Drill Site 16	Drilling Mud	2.00	Following a cement displacement, a Dowell pump unit prepared to unload residual mud into a Peak vac truck. After connecting a 150-psi rated hose from the vac to the cementer, the vac truck operater opened his manual valve and attempted to open his internal air valve. The air valve did not function (frozen line) so the driver proceded to the front of the vac truck to investigate. Recognizing the operator's motion to open both valves, the Dowell representative signaled the pump operator to begin pumping. Full pump pressure, not just charge pressure (as is Dowell SOP) was applied immediately to the closed air valve and the transfer line ruptured. There were no injuries involved, proper notifications were made, and the spill was cleaned immediately. The snow and mud picked up were returned to the mud system for beneficial re-use. Extra drip liners placed by the N9ES Spill Champion before the job minimized environmental impact.	Material was cleaned up with hand tools.	The recovered product was returned to the system for reuse.	
10/10/99	1999-IR-94311	Well Pad F	Crude Oil	2.00	The APC Well Testing Unit was rigged up on F-Pad to conduct a solids flowback operation on well F-14. This particular flowback was conducted to confirm the integrity of the recent sand back/cement cap operation which was suspect in the F-14/Skid 95 header wash-out in July, 1999. During a solids flowback operation, the solids are periodically purged from the test seperator to a flowback tank. Four dump lines located on the seperator are used to purge the solids from the test seperator. After purging through two of the four dump lines, the groundman noticed a mist of oil on the pad and two vehicles that were parked on location. Operations were immediately ceased and the spill was reported to the Environmental Department, BPX Well Ops. Team Leader and WSA Safety. The Environmental Department estimated the spill volume to be 2 gallons of well fluids, all of which were contained to the snow covered well pad. During the inspection of Flowback Tank #4 it was noticed that the targeted tee and downcomer was missing from the tanks inlet piping located inside the tank. This resulted in a three inch stream of solids & fluids being directed straight to the back of the tank rather than to the bottom of the tank. Fluids then splashed out of the tank from around the seam of a closed hatch cover. The current wind speed was in excess of 20 mph which blew the well fluids in the form of a mist onto the pad.		Exempt clean up material was taken to Pad 3.	
6/26/00	2000-IR-95069	Access Road	Transmission Fluid	2.00	A Peak truck was working on the P Pad access road after a rig move, hauling sheets of plywood. A power steering hose fitting was apparently loose on the vehicle and PSF sprayed on the road for a distance of 200-300 feet. The truck driver stopped and contacted his dispatcher who in turn notified the WOA spill tech who responded to the site. The vehicle was recently in the shop for maintenance and it is believed that this hose was disconnected during servicing and not properly re-installed or tightened. The power steering reservoir holds approximately 2 gal of fluid, all of which is thought to have leaked out. Lessons learned: QA/QC process for vehicle maintenance is necessary to prevent this type of incident. Be aware of potential problems following recent maintenance; drips, drops, unusual handling, etc.	Affected gravel was removed with a Super Sucker.	Non-hazardous gravel was taken to Pad 3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/27/00	2000-IR-94596	Well Pad X	Corrosion Inhibitor	2.00	The chemical crew was on X-Pad pumping a mixture of 50/50 methanol to thaw ice plugs on several chemical injection lines. The crew successfully thawed the ice plugs at X-02 and X-21. Prior to leaving the pad, the crew decided to conduct a well to well inspection to determine if any of the other chemical injection lines had ice plugs. As one of the chemical department employees entered the X-10 wellhouse he could smell a strong odor of corrosion inhibitor. He investigate the situation and determined that there was a leak on the chemical injection system at the Sko Flow filter. The employee shut the chemical injection system in at the lateral valve and tightened the fitting on the Sko Flow filter. The fitting had backed off approximately 1/8th of a turn. This chemical injection point has been in service for several months. It is undetermined as to exactly what cause the fitting to back off. The crew then contacted the APC Chemical Foreman and APC Safety. APC Safety immediately notified the environmental department and the chemical crew began the initial clean-up of the contaminated gravel. The chemical contaminated a 2'x2' area of gravel and the spill volume is estimated to be 2 gallons. The chemical operators removed the Sko Flo filter and inspected it for damage. There was no damage to the filter and the O-ring was fully intact.	Affected gravel was removed with hand tools.	Non-hazardous gravel was taken to Pad 3.	
7/5/00	2000-IR-95125	Drill Site 02	Diesel	2.00	Bolt came loose on flange of the back strainer on Fuel Truck #32-109.	Recovered product with loader and placed into dump box for disposal at Pad 3.	Pad 3 West Temporary Gravel Pit	
3/13/00	2000-IR-94740	Well Pad N	Methanol	2.00	Approximately 2 gallons of methanol spilled from an open valve on a lubricator during coil tubing work on well N-11. The incident occurred at the end of the job while equipment was being rigged down. The valve was opened to allow the interior of the lubricator to vent. Although it was believed that all fluids had been removed from inside the lubricator, enough remained in the system to fill the bottom of the device and flow out the open valve. The spill was reported to BP Environmental and the fluids were cleaned up.	The area was flushed with 500 gallons of potable water and then removed with a Peak vac truck.	Taken to Pad 3	
10/4/00	2000-IR-95452	Drill Site L2	Crude Oil	2.00	Approximately 5 gallons of dead crude spilled from a hardline connection of a coil tubing unit performing work at well L-2-18. About 3 gallons of the material was caught in secondary containment. Following inspection of the equipment, it was determined that the spill resulted from the failure of a 1502 hammer union rubber. The CTU had just started performing a hot oil wash using heated dead crude. Before the start of the job, the surface equipment had been pressure tested to 4000 psi. While running into the hole, a crew member was stationed outside the unit to monitor the fluid lines. At about 1800 feet, a hardline connection started to leak. The operator was notified and the job was stopped. The leak resulted in crude oil being sprayed onto the snow, into a spill contaiment pit placed under the connection, and onto the side of the coil tubing unit. After the spill, the coil tubing was pulled out of the hole, the well was shut in and the connection was repaired. The spill was reported and cleaned up. Contaminated snow was given to the Phillips Environmental department for disposal.	Complete		
9/9/99	1999-IR-94214	Well Pad A	Seawater	1.75	While preparing to pour the contents of a small bucket into a slop oil trailer, the employee lost his balance. In the process of saving himself from injury, he dropped the bucket onto the gravel pad. The bucket contained approximately 2 gallons of Class II seawater and 50/50 Methanol. The spill was promptly reported to BP Environmental and cleaned up. The employee was not injured.	A loader and hand tools were used to remove the contaminated gravel.	The exempt material was taken to Pad 3	The employee was not injured
2/28/04	2004-IR-818964	Well Pad A, A-28 cellar, GC3	Crude Oil	1.50	Following a sidetrack drilled by N4ES, the roustabout crew was preparing to reconnect the well. The sills for the well house were iced-up, so the crew tented the base and heated it up to melt the ice so the well house could be bolted-down. After the cellar materials had melted, some unknown material was found floating on the water. The Spill Hotline, x5700, was notified.	The contaminated water and oil was removed from the well cellar with a vac truck. Residual oil was remvove from top of water with absorbent pads.Gravel was removed with shovels and placed into oily waste bags for disposal transportation. Snow and ice was also placed into oily waste bags for disposal transportation.	Contaminated snow and ice was taken to T-Pad storage pit. Contaminated water and oil was taken to GC-2 for recycle. Contaminated gravel will be taken to Grind & inject facility. Contaminated absorbent pads will be taken to an approved NSB oily waste dumpster.	3/2/04 Amanda Leffel (ADEC) requested that spill be left as an initial report until a determination is made by Field Production Team. Bill Fletcher contacted Amanda Leffel on 3/04/04 and advised her that an inspection had been completed on the A-28 well and there was no sources of leaks noticed. The rig that was previously on the well was also contacted and had no information as to what may have caused the 1.5 gallons of crude to be spilled. Amanda advised Bill Fletcher that this spill could be closed out as an unknown.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/27/04	2004-IR-882245	Drill Site 17, DRILL SITE 17 WELL14/22, FS2/COTU	Crude Oil	1.50	WHILE SWEEPING DS 17-14/22 TO DEINVENTORY LINE FOR CORROSION REPAIRS GAS CARRYING WELL BORE FLUIDS CREATED A MIST RESULTING IN DISCOLORATION TO SNOW ON PAD AND SNOW OFF PAD	Snowmachine's and hand tools' are being used in the remove contaminated snow, Bobcat and dump box are being used to load and haul.	Contaminated material will be brought to G&I for disposal.	Notifications were made to all agencies. Note: The mist is to the surface of the snow, and has not penetrated to tundra.SRT will monitor tundra in spring to look for any tundra damage.This is the final report.
1/15/04	2004-IR-746946	Drill Site 14, DS-14 Well 32 Chemical injection system Skoflo valve, FS3	Corrosion Inhibitor	1.50	The Drill site operator entered Well 32 and discovered a leak in the chemical injection system at the Skoflo valve. The chemical operator was contacted and the system was stabilized. The cause of the leaking Skoflo has yet to be determined. Notifications were prompt. Update 1/21/04: The neck seal in the older model of Skoflo valve failed. Unable to determine how many rebuilds the valve has undergone.	Contaminated material was recovered with sorbents and rags and placed into oily waste bags for hazardous waste disposal.	Contaminated sorbents and rags will be disposed as hazardous waste. Gravel was taken to Pad 3 for disposal.	1 pint of the material seeped through the crack of the wellhouse floor. This material was removed, and brought to Pad 3 for disposal. NOTE: This is the Final Report
10/8/03	2003-IR-645290	Well Pad D, D-13 Conductor	Diesel	1.50	Operator discovered about 1.5 gallons of arctic-pak leaking up from around conductor. ACS spill tech was notified and arctic pak was cleaned up. Problem was turned over to the Annulus Engineer for well diagnostics. DHD beld pressure off of annulli.	Contaminated gravel was removed with shovels and oily waste bags. Liquid was soaked up with absorbent pads prior to gravel removal and placed in oily waste bags.	Contaminated gravel has been taken to Pad-3. Absorbent pads have been taken to an approved NSB oily waste dumpster.	D-13 is a producing well. The well is safe to operate. The AOGCC has been informed. ADEC Rep Amanda Leffel approved spill to be closed out at this time on 6/15/04.
4/16/06	2006-IR-1798802	Other BP Locations, Kuparuk State #1, Non Process Area	Hydraulic Fluid	1.50	During trimming operations at Kuparuk State #1 a loader tipped to one side on uneven ground causing approximately 1.5 gallons of hydraulic oil to leak onto the remediation site.	Hand tools were used to recover contaminated material.	Pad 3	A verbal notification was by the GPB enivronmental advisor Jim Short. The initial spill was related as on an Ice Road but was in a remeadition area.
3/20/01	2001-IR-101051	Drill Site 12	Diesel	1.50	JOB DESCRIPTION; Hard line rig up for a frac-job on drill site 12. Day shift set up packer failure line from I/A valve to flow back tank, in the process they inspected and replace aprroximately 6 gaskets prior to hammering up the line. Rig-up was not complete so pressure test was left for the night crew. Night crew finished rig up, and fluid packed the line per procedure and inspected fittings for leaks, (all fittings had drip liners in place per spill prevention procedures). No leaks were found so the crew began to pressure up the line using the triplex pump while subsequently monitoring the fittings. At approximately 400# a sudden pressure drop was detected, the triplex pump was shut down and all valves were closed and the line was inspected. During inspection two unions were found that had leaked fluid under pressure. The leadman notified supervison, and the line was evacuated and dissasembled for inspection. During inspection it was determined that the gaskets were not cold weather rated and had split and failed under pressure. The crew then shoveled and bagged the contaminated snow. Environmental was notified. This LCIR was generated due to the fact that there were two seperate spills on the same line, approx. 60' apart. Reference LCIR# 25246	Recovered material with hand tools and place into bags for disposal/reuse	Melt and reuse fluids for freeze protection. Gravel to Pad 3 West pit	This incident occurred at the same time as spill # 01-063E. This information is being provided to ADEC per 18 AAC 75.300.
1/16/05	2005-IR-1210971	Access Road, At the U2 power plant, at the fab shop A-9 door, and behind PBOC communications building., Non Process Area	Transmission Fluid	1.50	A box van had traveled to several locations and when he went to move after visiting the MCC power plant he made a u-turn and found that he was trailing oil. The van was shut down and the areas were the van had traveled were investigated. A trail of transmission oil was found in several other EOA locations.The Torque converter was found to have failed causing the gasket to fail also causing leakage.	A loader with a narrow scoop is being used to recover the trail of transmission fluid in the snow pack. The material is then being placed into a dump box for disposal.	Material was taken to T-pad for disposal	The square footage is a guess because the spill was a thin trail around the areas of PBOC, MCC, and Flow Station 2

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/28/01	2001-IR-101117	Drill Site 16	Methanol	1.50	A Dowell CTU was rigged up at DS-16 to perform coil tubing operatins on well #6. The crew fluid packed the coil, hard-line, and wellhead with 60/40 methanol in order to pressure test the system prior to beginning operations. Once the coil, the BOP stack and the return line were fully displaced with methanol, the plug valve and needle valve at the end of the return line was closed to isolate the system for a low pressure test. The Dowell crew pressured the piping to 200-300 psig. During a walk around inspection to check the hardline integrity a Dowell employee noticed that fluid was spraying between the plug valve and needle valve. The employee immediately communicated the CTU Supervisor via radio to abort the pressure test due to a leak. The pump was shutdown and the pressure was bled off. The Dowell crew used absorbent to soak up methanol that was in the secondary containment dike. At this time the crew realized that the containment dike was punctured allowing the methanol to escape onto the snow covered gravel pad. SRT, Schlumberger, VECO and BP Supervision were notified immediately. An Environmental Technician was dispatched to location. The contaminated snow and gravel was cleaned up and removed from location by the Environmental Technician. The Environmental Technician estimated the spill volume to be 1.5 gallons of 60/40 methanol. The VECO Well Support crew arrived on site, changed out the valve assembly and cap, and the line was successfully pressure tested. Dowell, VECO and BP personnel attended the Dowell Loss Prevention Team (LPT) meeting and determined that the VECO Rig up Crew did not perform a pressure test and failed to communicate it to the Dowell crew before the system was handed over for the CTU operation.	Used hand tools (chipping bars, pick axe, and shovels) to pick up contaminated snow and place in to oily waste bags.	Melt contaminated snow and use for freeze protection fluids as approved.	Spill is 100% cleaned up. This information is being provided to ADEC per 18AAC 75.300
6/3/07	2007-IR-2291178	Well Pad A, GC3, A-Pad, well A-35, GC3	Crude Oil	1.50	Well Pad Operator for A-Pad observed oil floating on the surface of water in the well cellar for A-35. He called the spill hot line at 0705 hrs. Spill Tech responded and estimated the volume at 1.5 gallons. Well Integrity Team was notified.	Sorbents were used to sweep oil off the top of the standing water. A vac truck was used to remove the remaining cellar fluids.	The sorbents were taken to an approved oily wasted dumpster. The cellar fluids taken to GC-2 for EOR.	The well has been shut in and no liquids have bled out since.
3/20/01	2001-IR-101048	Drill Site 12	Diesel	1.50	JOB DESCRIPTION; Hard line rig up for a frac-job on drill site 12. The day shift rigged up hardline from the inner annulus valve to a flow back tank. In the process they inspected and replace aprroximately 6 hardline seals prior to hammering up the line. Their rig-up was not completed prior to the end of their shift so the pressure test was left for the night crew. The night crew finished the rig up, fluid packed the piping system per procedure and inspected fittings for leaks (all fittings had drip liners in place per spill prevention procedures). No leaks were found so the crew began to pressure up the line using the triplex pump while subsequently monitoring the fittings. At approximately 400 psig a sudden pressure drop was detected. The triplex pump was shut down immediately, all valves were closed and the line was inspected. During the inspection two unions were found to have leaked fluid under pressure. The leadman notified supervison, and the line was evacuated and dissasembled for inspection. During the inspection it was determined that the gaskets were not cold weather rated and had split and failed under pressure. The crew then shoveled and bagged the contaminated snow. The Environmental Department immediatley notified of the incident. The contaminated material was gathered by the Spill Technician. The snow and diesel will be melted and the fluids will be reused for freeze protections.	Recovered with hand tools and placed into bags for disposal.	Snow melted and fluids used in Freeze protection fluids. Gravel with trace diesel disposed of at Pad3 West pit..	This information is being provided to ADEC per 18 AAC 75.300.
6/24/01	2001-IR-101715	PM-1	Diesel	1.50	Drill site truck 15-100 driven to P1 and P2, where leak was discovered. See LCIR:2001-LCIR-28274	Recovered with hand tools and loader. Placed into bags and dump box for disposal.	2 cu. yrds. of lightly contaminated gravel taken to pad 3.	This information is being provided to ADEC per 18 AAC 75.300
6/7/01	2001-IR-101550	Drill Site 18	Crude Oil	1.50	Operator noticed oil on the gravel inside the well house at drill site 18 well 31. approximately 1.5 gallons	Recovered with hand tools and placed into bags for transportation to Pad 3	Pad 3	This information is being provided to ADEC per 18 AAC 75.300
4/6/01	2001-IR-101243	Access Road	Motor Oil	1.50	A leak of approximately 1.5 gallons of motor oil ocurred after the oil pan drain plug loosened and fell out while the vehicle was in operation. The leak was discovered after the vehicle experienced loss of power and stopped. Cleanup was requested by ACS. An improperly installed drain plug during routine maintenance was found to be the root cause of the spill	Recovered with sorbents. Residue was heated with weed burners and then sorbents were re-applied to pick-up remainder.	Oily sorbents taken to oily waste disposal bin.	This information provided to ADEC per 18 AAC 75.300
2/1/02	2002-IR-163299	Niakuk, Niakuk well 17	Methanol	1.50	A mechanical purge plug blew out while purging a line due to overpressuring the mechanical plug.	Sorbent, shovels and oiy waste bags were used to remove contaminated material.	Material beneficially reused for freeze protection.	State Troopers were notified of spill.
3/18/05	2005-IR-1287458	L-2, L2-33 annulus gauge, GPMA	Methanol	1.50	Following field wide annulus freeze protect job, the gauge for L2-33 developed a thread leak, which leaked methanol into the well house cellar. The leak was discovered during the routine wellhead check. The leak resulted in a spill of less than .5 gallons of methanol. The CIC crew that performs the freeze protection work inspects, test and looks for problems with connections during this activity. During this event plus 300 injections were performed with this leak as the single failure during the work execution at GPMA	Hand tools were used to remove contaminated material.	Contaminated gravel was brought to G&I for disposal.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/5/05	2005-IR-1268033	Well Pad L, L-02, GC2/SAT	Corrosion Inhibitor	1.50	a leaking fitting was discovered by the night pad operator on L-02, behind the well house. The operator fixed the leak and reported the spill. SRT determined the quantity at 2 gal.	All of the contaminated materials was removed from the gravel pad using shovels, brooms & chipping bars. The contaminated snow was placed in oily waste bags for disposal transportation.	The material is currently being stored at the Haz-Waste Process Facility until a waste determination is made. If the material fails for flash it will be sent of sight as haz-waste. If it passes, the material will be taken to the T-pad storage pit.	
5/20/03	2003-IR-516225	Well Pad M, M-19	Crude Oil	1.50	During a safe-out of M-Pad for turn-around work, the tree cap leaked 1-1/2 gallons of oil onto the tree and into the well cellar. The wells were checked at the beginning of the job, and the wells that exibited excessive bleeding were serviced. This well did not have a problem in the beginning and leaked later in the day before being discovered.	The wellhead and walls were wiped down by hand using absorbent and rags. The oil on the snow melt water in the cellar was removed with a vac truck.	The contaminated rags and absorbent have been taken to an approved NSB oily waste dumpster. The contaminated well cellar fluids have been taken to Pad-3 disposal facility.	
7/22/05	2005-IR-1468894	GC-1, K-5 Well house, GC1	Hydraulic Fluid	1.50	While making daily safety checks operator discovered leaky pressure switch.	The contaminated gravel was removed with shovels and placed in oily waste bags for transportation. The liquid on the metal frame work was wiped up with absorbent pads.	Contaminated gravel will be taken to Pad-3 disposal facility. Contaminated absorbent pads will be taken to an approved NSB oily waste dumpster.	
2/9/07	2007-IR-2152324	Drill Site 17, DS # 17 Well # 07, FS2/COTU	Crude Oil	1.50	While depressuring/deinventorying flow line on DS #17-07 for removal prior to rig work over aproximately 1.5 gallons of crude oil was carried over with gas to vent tank downstream of test seperator resulting in a mist covering the snow in the lined pit holding said vent tank. Non emergency spill was called in.	A bobcat and dumpbox were used to pick up some of the contaminated snow. Shovels and brroms were also used to pick up the light spray. Chem-clear and ragr were used to wipe down the tank.	Contaminated snow and gravel went to G&I for disposal. Contaminated rags were disposaed as oily waste.	
3/4/07	2007-IR-2178401	GC-1 Pad, GC1 outside skid 451, GC1	Diesel	1.50	The Veco scaffolding truck #26-165 working at GC-1 developed a fuel line leak and spilled diesel onto GC-1 pad near skid 450. Crew notice diesel smell, immediately stopped to investigate and discovered diesel fuel leaking out the back of the engine from the fuel line. Crew placed drip liner underneath truck and called the operator/spill line.	All diesel contaminated snow on the gravel surface was removed with shovels and placed in oily waste bags.	The contaminated snow and diesel will be melted down and recycled at an approved production facilty.	
2/28/07	2007-IR-2172467	BOC Pad, BOC Pad, Non Process Area	Diesel	1.50	Pickup was running at the BOC bull rail and it was discovered that diesel was leaking beneath the engine. The engine was shut off, a dike was placed under the pickup and notifications were made.	Contaminated snow was removed with a Bobcat surface trimmer and shoveled into oily waste bags.	The contaminated snow and diesel will melted down and recylced at an approved production facility.	
3/11/07	2007-IR-2187587	Airport, Entrance to the EOA Bus Hanger, Non Process Area	Motor Oil	1.50	Driver parked bus 25-323 out of hanger in preparation for an airport run. The bus leaked 1.5 gallons of engine oil while idling. The cause was determined to be an oil cooler hose rupture.	Hand tools were used to recover the contaminated snow..	Contaminated snow will be taken to T-pad for storage and future class 1 disposal.	
2/7/07	2007-IR-2150577	PBOC, PBOC camp parking lot, Non Process Area	Hydraulic Fluid	1.50	Hydraulic fluid leaking from pick-up truck in PBOC camp parking lot	Hand tools were used to recover the contaminated snow and placed in oily waste bags for disposal.	The contaminated snow will go to T-pad for storage and future class 1 injection.	
11/21/05	2005-IR-1624678	West Gas Injection, WGI, Non Process Area	Diesel	1.50	While filling lubricator with diesel in order to pressure test a leaked developed from an o ring allowing diesel to escape, and drip down tree. Operations were immediately halted, and tree was wrapped with absorb to contain diesel.	Hand tools, and sorbent were used to remove contaminated material.	Sorbent went to oily waste, and contaminated gravel went to Pad 3 for disposal.	
2/6/02	2002-IR-164543	Drill Site 15, DS #15, Well #8	Hydraulic Fluid	1.50	A crew working on Coil Tubing unit #1, had completed a job on DS 15 on 02-04-2002. The unit was left on location due to weather conditions. On 02-06-2002 the crew returned to location to rig the unit down. During the process of rigging down, a 1.5 gallon hydraulic fluid spill occurred. While lowering the mast on the coil unit an equalization valve on the hydraulic cylinder struck the end of a connection on a 3" hose that was laying on the back work deck of the unit covered with snow. The impact caused the equalization valve to shear off of the cylinder, and discharge hydraulic oil on the back deck of the unit and on the ground. The loss of hydraulic fluid jeopardized the ability to lower the mast. This caused the crew to halt operations until a crane and a man lift could be dispatched to location to help stabilize the mast and repair the equalization valve. Once the repairs were complete, the crew finished lowering the mast into the cradle. The spill response team was notified of the spill as required, but due to the mast problems could not evaluate the spill volumes until 11:30 PM. The spill response team estimated the spill volume to be 1.5 gallons.	Recovered product with loader and placed into dump box for disposal at Pad 3.	18 cu. yrds of lightly contaminated material taken to pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/29/03	2003-IR-424061	Well Pad S, S-Pad	Hydraulic Fluid	1.50	Wellhouse for well S-100 was pulled for a close proximity drilling job. The wellhouse was disconnected using standard procedures and staged at the edge of the pad. Sometime during the last 45 days a drain valve connected to a storage tank began to leak hydraulic fluid. No pump pressure was on this system, leaving less than 10" of hydrostatic pressure on the valve.	Hand tools were used to remove contaminated snow from pad.	The material was placed in melt tank and offered for hydrocarbon recycle.	
2/8/02	2002-IR-165102	Sag River, Ice road between Sag River Delta sites #1 and 2/2A.	Motor Oil	1.50	Dozer lost rod or piston in engine between Sag River #1 and #2 Delta sites. As a result, motor oil was released from the blow by vent onto the ice road.	Recovered with hand tools and placed into oily waste bags for disposal.	2 cu. yrds of lightly contaminated material taken to Pad 3 for disposal.	
8/20/01	2001-IR-111701	Drill Site 18, DS#18 between well #30 and #11	Crude Oil	1.50	Secondary containment of bleed trailer containing crude oil overflowed when drill site operater moved trailer. The containment had reached capacity due to recent rain activity and some of the product sloped out while being transported across uneven ground.	Recovered product with bobcat loader and placed into dump box for disposal at CC2A.	7 cu. yrds of lightly contaminated gravel taken to CC2A for disposal.	
7/20/01	2001-IR-71458	Drill Site 02, Well House 37 on Drill site 2.	Diesel	1.50	On 7/20/01 a Sea Flex crew was preparing to install Fall Protection on the well houses of Drill Site 2. Once employees opened the tailgate of truck# 14-409W, it was noticed of a leak coming out of the hose fitting connected to the Secondary Fuel Tank (the tank sits in the bed of the truck). The hole in the hose was cut off and re-clamped and the Drill Site Operator was called immediately. The leak was controlled and the proper personnel called. ACS spill techs showed up and started the process to clean the material. There was no one hurt and no immediate danger to the environment.	Recovered with hand tools and placed into bags for disposal at Pad 3.	1 cu. yrd of lightly contaminated gravel taken to Pad 3 for disposal.	
9/18/07	2007-IR-2410709	Well Pad E, E-101, GC1	Diesel	1.50	Upon arrival on location for crew change, the oncoming crew performed a walk-around and discovered a diesel spill that appeared to be coming from the meth injection value cap. It was discovered that the whitey valve was left open (cap was not tight) during pressure testing resulting in the spill.	Hand tools were used to recover the contaminated gravel.	The contaminated gravel was taken to Pad 3 for storage and disposal.	
6/29/04	2004-IR-957401	Well Pad B, B-36 flowline near the manifold building, GC3	Crude Oil	1.50	Crude was found leaking from a flange on the B-36 flowline near the manifold building.	Shovel were used to remove contaminated gravel from pad.	The gravel will be taken the Drill Site 4 Grind and inject facility.	
9/23/03	2003-IR-628962	Spine Road, Spine Road between GC-3 and CPS	Hydraulic Fluid	1.50	An unknown spill was discovered on the Spine road by a crew working on repairing sections of chip seal between GC-3 and CPS	Sorbent materials were put on spill and cleaned up using brooms.	The sorbent material used was taken to the NSB oily waste dumpster.	
9/17/07	2007-IR-2409170	Fleet Shop, Spine Road from warm storage to the fleet shop., Non Process Area	Transmission Fluid	1.50	On 9/17/07 at 4:30 am a CH2M Hill light duty shop employee transported truck 14-890 from the light duty shop over to the Fleet shop. After parking the truck at the fleet shop the employee discovered a fluid release under the truck. The truck was bought back into the light shop via tow-truck to be inspected. After the inspection it was discovered that a flex rubber transmission cooler line had slit causing the release. Approximately 3 quarts of transmission fluid were release.	Contaminated gravel was removed with shovels and bags. the 8" wide 1000' long stripe on the chip seal was burned off with weed burners.	Contaminated gravel sent to pad 3 for storage and remediation.	
10/12/01	2001-IR-124597	U-11 (EOA Building), Outside U-11	Transmission Fluid	1.50	A mechanic had needed a flatbed truck to haul some material in. The flatbed was located at U-11. He had parked his boxvan outside of U-11 and left it running. He then got into the flatbed and hauled hauled his materials. He returned to U-11 approximately six hours later to return the flatbed. When he got back into his boxvan and engaged the transmission it would not move. He then proceeded to get out and see what the problem was. He noticed that there was some fluid on the ground near the transmission. He shut the truck down and called his Supervisor and told him of the situation and all necassary parties were contacted.	Hand tools were used to remove contaminated material.	All contaminated material was brought to pad 3 for disposal.	
12/7/03	2003-IR-702653	Drill Site 04, DRILL SITE #4 WELL #26	Hydraulic Fluid	1.50	WELL HEAD PANEL HOSE FAILED AND LEAKED HYDRAULIC FLUID TO WELL HOUSE CELLAR	Hand tools were used to clean up the contminated material that had gotten outside of the well house. Because the grating on the well floor is welded down, The remainder of the spill clean will be done in the spring when the well house can be removed.	Recovered material will be brought to T pad for disposal.	
11/21/01	2001-IR-136558	BOC Pad, BOC pad, WOA	Hydraulic Fluid	1.50	A bolt supporting the hydraulic cylinder hose connection broke on front end loader #52-243 and 1.5 gallons of hydraulic fluid spilled onto the ground on the BOC pad. That particular hydraulic cylinder hose fed the main boom and tilted the bucket back and forth. By the bolt breaking on the connection caused the "O" ring to unseat and allow hydraulic fluid to leak. One of the bolts had sheared off possibly being torqued too tight at the factory.	Loader and hand tools were used to clean up affected pad area.	Recoverded material was taked to pad 3 disposal facility.	
5/26/03	2003-IR-520122	Drill Site 03, ds3 well 18	Diesel	1.50	while checking pad noticed fuel leaking from air compressor.	Contaminated Gravel removed and sent to pad 3 for disposal	Contaminated gravel taken to Pad 3 West Pit for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/20/05	2005-IR-1466687	Main Construction Camp (MCC), MCC Bullrail, Non Process Area	Diesel	1.50	An Ice Service employee was visiting the medic for treatment at MCC. When he returned to the vehicle, he noticed a fuel leak coming from the pick up. A fitting on the fuel pump came loose and caused a 1 and a half gallon spill.	Contaminated gravel was shoveled up into oily waste bags for disposal	Contaminated gravel will be taken to Pad-3 for disposal.	
1/25/07	2007-IR-2131617	South Hangar, Between the west side of the Wells Support shop and the API shop, Non Process Area	Diesel	1.50	On the 25th of January at approximately 1120 hrs SRT was responding to a coolant leak from a VECO steam truck #85048. As they came around the corner between the Wells shop and the API shop they spotted what look like a diesel spill on the pad near the ¿P¿ Sub shop. When SRT examined the area they discovered that there was a diesel spill and the area was approximately 2¿ X 2¿ and four inches deep. SRT estimated the spill to be 1.5 gallons. The source of the release is unknown at this time.	Hand tools were used to remove contaminated snow.	Snow was melted and sent to GC 2 for Hydrcarbon recycle.	
1/7/05	2005-IR-1199879	Well Pad D, behind Well House D-12, GC1	Diesel	1.50	ARTIC PACK spill behind well D-12 due to an improperly attached hose	Contaminated snow will be removed from the snow covered gravel pad with shovels, loader and dump truck.	Contaminated snow has been taken to T-Pad storage pit.	
1/13/03	2003-IR-412743	Main Construction Camp (MCC), Outer bullrail in MCC front parking lot.	Motor Oil	1.50	Mystery spill discover in MCC parking lot near outer bull rail. Material was used motor oil. Suspect that material was from vehicle that had been parked idling.	Recovered material with hand tools and placed into bags for disposal.	1 cubic yard of material taken to T-pad for disposal.	
9/5/01	2001-IR-114951	Drill Site 01, Drill Site # 1 well # 4	Crude Oil	1.50	On 8/10/2001 a crew was sent to Drill Site #1 well #4 to remove the lateral line in preparation for Coil Tubing Drilling. The Flow line was de-pressured, the lateral line was removed and a tapped flange with tee and needle valve assembly was installed on the open flange upstream of the lateral line valve. Approximately one hour later a safety specialist visiting the work site noticed a small leak coming from around the plug in the tee and needle valve assembly. It was determined that both the lateral line valve and the gate valve in the manifold building were leaking and the pressure built up behind the tapped flange and began leaking around the plug in the tee. At that time the needle valve was opened, the residual pressure and fluids were drained into containment and the plug was replaced. The job was then completed. Prior to leaving the area the tee and needle valve were checked and found to be holding. Several days later the same crew was on site to install a double gate valve on the inner annulus prior to the rig moving on the well. The lead man checked the tee and needle valve assembly once again and no leaks were detected. On 9/5/2001 another crew was sent to the site to re-install the lateral line. The lead man checked the job site and found a small leak had occurred at the flange area. It was determined to be slowly leaking around the plug in the tee and needle valve assembly. The leak was immediately reported to the appropriate parties. Upon investigation it was determined that the internal threads on the tee were galled and in conjunction with both flowline valves it was unable to hold pressure and a leak occurred. The contaminated gravel was removed and disposed of by the spill technicians. The leak was contained on the gravel pad and at no time was in danger of reaching the tundra. There were no injuries involved with this incident.	Bobcat and dumpbox were used to remove contaminated gravel.	Contaminated gravel was brought to pad 3 for disposal	
10/10/02	2002-IR-336821	C Pad, C-Pad	Transmission Fluid	1.50	While attempting to access materials stored on a dock at the C-Pad warehouse, the crew's pickup became stuck in a snow drift. In an attempt to remove the truck without calling for assistance, the rear differential was damaged and hydraulic oil spilled onto the snow-covered surface of the pad.	Loader, Bobcat, and dump box were used to remove contaminated snow, and gravel.	Snow, and Gravel were brought to T-Pad for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/12/01	2001-IR-116585	Drill Site 14, DS 14 well # 40	Diesel	1.50	Wire line was rigged up with 3/16" braided line performing a fishing job on DS14-40. There was 400 psi on surface. The well and the wire line lubricator were fluid / diesel packed. The pressure control equipment that seals the braided line off in the pack off is a grease injection type. During the 2nd run in the well, the wire line operator noticed that they had encountered some drops of diesel on the ground and some surrounding equipment. The gravel pad was already wet with rain so it was difficult for him to determine how much he had actually lost. The operator notified his supervisor that he had encountered this problem but told him the material loss was minor and that the pressure control equipment was functioning and he felt he had control of the situation. As the job continued, there was apparently at least one more instance of release. The supervisor had come to location to assess the situation. BP supervisors and SRT were informed of the situation and came to the well site. The job was suspended when it was found that there was more diesel release on the gravel than previously thought. During an investigation it was concluded that there was insufficient grease control pressure to contain wellhead pressure in the lubricator. Wire line equipment was moved out of the way and SRT removed the contaminated gravel. The wire line pressure control equipment was examined and found to be in good condition. After clean up and inspection, the equipment was rigged back up and the job continued without incident. No one was hurt during the incident and at no time was the material in danger of reaching the tundra.	Bobcat and dumpbox were used to scrape up and remove contaminated gravel.	Contaminated gravel was brought to G&I for disposal.	
11/29/05	2005-IR-1634739	Flow Station 3, Drill Site 14 Pad, FS3	Transmission Fluid	1.50	While Drill Site 14 operator was making routine checks, he found transmission fluid leaking from underneath his vehicle. Because of the dark conditions, the operator didn't catch the leak for some time, but used a containment method once noticed.	Bobcat, and dump box were used to remove contaminated snow from pad.	Contaminated snow was brought to T pad for disposal.	
2/21/07	2007-IR-2162843	Skid 50, SKID 50 WEST SIDE OF SKID 50, Non Process Area	Motor Oil	1.50	GENERATOR 80-521 LOCATED AT SKID 50 DISCHARGED OIL OUT OF ITS EXHAST PIPING SPRAYING 1 TO 2 GAL'S OF OIL ON TO SNOW.	Hand tols were used to remove contaminated snow from pad.	Contaminated snow was brought to T pad for disposal.	
6/23/03	2003-IR-550215	U-21 (EOA Building), Pad 9	Motor Oil	1.50	Surplus equipment, (Dumpies), were parked at Pad #9 over the winter. After equipment was moved, it was discovered that the equipment had leaked hydraulic and motor oil onto the pad. Per Randy Burdick this will not be charged to CONAM but to BP since the vehicles were sent there prior to April 1, 2003.	A vac truck was used to pick up the puddles of contaminated storm water. The contaminated gravel was removed with a loader and placed into a dump box for disposal.	Recovered material was taken to pad-3 for disposal.	
1/4/02	2002-IR-150446	C Pad, 100 feet north of the C-Pad Chemical office to the pad	Methanol	1.50	At 0645 the chemical technician and the Alaska West truck driver discovered a methanol leak on the tanker #35-395. The chemical tech immediately placed sorbant pads on the pad and in the manifold compartment of the tanker. The leak was secured, the tanker moved to the Pad 10 tank and off-loaded. The affected pad area was shoveled up and contaminated material bagged for proper disposal. Proper notifications were made to the CIC Chemical foreman, HSE, SRT and Alaska West Dispatch. The affected area was approximately 4 feet by 4 feet and estimated to be 1.5 gallons of Methanol. The tanker will be repaired by Alaska West.	Recovered material with hand tools and placed into drum for beneficial reuse.	Material beneficially reused for freeze protection.	
4/9/02	2002-IR-199511	Drill Site 04, DS-4 between flowlines 7 and 41	Hydraulic Fluid	1.50	While operating between flowlines 7 and 41(DS-4), Trimmer L56-R562 experienced a hydraulic pump failure resulting in the release of 1.5gal of hydraulic oil onto 30 sq.ft. of the reserve pit.	Recovered material with a loader and placed into dump box for disposal.	3 cu. yrds of material taken to Pad 3 for disposal.	
2/16/02	2002-IR-168518	NW Eileen, NWE 4-01 Ice pad	Hydraulic Fluid	1.50	During construction of NWE 4-01 ice pad hydraulic system on Dump Truck started leaking, leaving a trail of synthetic hydraulic fluid approximately 75 yards on ice. Total fluid spilled approx. 1.5 gals. MPU Enviro Techs notified, ice chipped up and recovered. 100% recovery and disposal.	A grader was used to windrow the contaminated snow and a loader and dump truck were used to remove the snow and haul to Pad 3	The material was taken to pad 3 disposal facility.	
2/21/07	2007-IR-2162572	Drill Site 04, DS 4 well 01 Lateral valve, FS2/COTU	Crude Oil	1.50	While operator making routine check notice dark spray on the ground near lateral valve at well	Hand tools were used to remove contaminated snow.	Contaminated snow was brought to G&I for disposal.	
2/11/05	2005-IR-1240324	Well Pad J, J-pad, GC2/SAT	Hydraulic Fluid	1.50	While blowing snow at J-pad, a hose on the hydraulic pump on blower #53-011 rubbed against the head of a bolt causing the line to rupture.	Contaminated material was removed from the snow covered gravel pad using a loader and dump truck.	Contaminated snow was taken to T-Pad storage pit.	
9/25/03	2003-IR-631274	Drill Site 16, DS 16 well 28	Diesel	1.50	16-28 CASING LEAK	Contaminated gravel around well head was recovered using hand tools.	Contaminated gravel was taken to G&I for disposal	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/12/01	2001-IR-116269	CIC Facility, C-Pad Chemicals east of Module 4911 Bulk Chemical facility in lined area.	Hydraulic Fluid	1.50	While loading Antifoam 67 into Dempster tank #94-501 the operator observed a leaking hydraulic fitting. The operator immediately stopped his current loading task and investigated. The leak was determined to be a loose hydraulic quick connect fitting for the Dempster pump. The notifications of the leak took place immediately to the non-emergency spill reporting, Superintendent and HSE. SRT has cleaned the site and estimated between 1 to 2 gallons of hydraulic fluid leaked into a lined containment area. Prior to the leak the fitting had been replaced. The operator had taken the truck back to the shop to replace the other end of the quick connect and was promptly repaired. Upon investigation the fitting was discovered to be only hand tight which caused it to leak. The operator tightened the loose fitting and placed unit back in service.	Bobcat and dumpbox were used to remove contaminated gravel.	Contaminated gravel taken to pad 3 for disposal.	
7/30/04	2004-IR-995679	MCC Fuel Dock, MCC fuel dock, DS-12, DS-1, Non Process Area	Motor Oil	1.50	When the employees pulled into the fuel dock to to fuel the their pick up, they noticed oil leaking from the engine. They immediately put a drip tray under the vehicle and called 5700. After investigaing the spill, they found a trail leading into the fuel dock. They back tracked to the places they had been an found a couple more spots at DS-1 and DS-12. The total volume found was 1.5 gallon. The cause of the spill was from the O- ring on the high pressure oil pump.	The contaminated gravel was cleaned up with hand tools and put into oily waste bags for disposal.	Contaminated material will be disposed at Pad-3	
7/2/07	2007-IR-2323108	Flow Station 1, West Dock Road shoulder in front of Flow Station 1 (Butler building), FS1/SIP/STP	Hydraulic Fluid	1.50	Employee was opeating hydraulics on HCC equipment #144-030, to lower a Low-boy in preparation for unloading dozer. Employee noticed hose rupture and immediately shut down the pump. One gallon of hydraulic fluid to the Flow Station 1 pad.	Bobcat and dump box were used to remove contaminated materail..	Material was brought to Pad 3 for disposal..	
3/25/04	2004-IR-845277	Access Road, L4 access, Non Process Area	Hydraulic Fluid	1.50	Tractor #42-010 experienced a failure of the hydraulic system filter and leaked 1.5 gallons of hydraulic oil onto access road. SRT notified.	Loader and dump box were used to remove contaminated material. Conam has entered into their Spill Reduction Initiative data base to aid in further spill mitigation analysis.	Materail was brought to T Pad for disposal.	
9/5/03	2003-IR-611787	Central Gas Facility, North end of CGF pad, North side of new LTS-3 skid	Hydraulic Fluid	1.50	Crew working with Aerial work platform (manlift) on the North side of new LTS-3 Skid on the North end of the CGF. Operator and employees on ground noticed a sheen as well as leaking hydraulic fluid coming from the manlift. Operation was shutdown and reported to Supervisor who in turn reported to VECO dispatch. Exact source of spill was not apparent to Supervisor or crew. VECO crew initiated clean-up by laying down absoorbents. SRT personnel dispatched to the incident determined that the spill was approximately 1.5 gallons of hydraulic fluid created a sheen over a 10'x40' area and a trail approximately 90' feet long and 1' wide. A mechanic was dispatched to the scene and it was found that an "O" ring in a Parker valve had failed. The "O" ring was replaced and the manlift was returned to service.	Bobcat and Dump box were used to remove contaminated material.	Material was brought to Pad 3 for disposal.	
8/10/06	2006-IR-1940034	Drill Site 01, DS 01-07, FS1/SIP/STP	Motor Oil	1.50	The transmission on the pump had an internal failure causing the PTO drive to shatter. Resulting in a release of motor oil on the pad.	Loader, and dumpbox were used to remove contaminated gravel.	Material was brought to Pad 3 for disposal.	
5/18/02	2002-IR-225868	Drill Site 05, Between well 5-23 and 5-26	Hydraulic Fluid	1.50	Found an old spill when the snow melted away. appears to be a hydrocarbon spill. Only known activety in the area this winter was drilling.	Bobcat, and dump box were used to remove material.	Material was brought to T Pad for disposal.	
6/15/03	2003-IR-542199	PBOC, PBOC BULL Rail	Diesel	1.50	A 1.5-gallon of diesel fuel was found at PBOC Bull Rail. Cause is unknown.	Bobcat and dump box were used to remove contaminated gravel from site.	Material was brought to Pad 3 for dispoal.	
5/28/04	2004-IR-918520	Checkpoint - Central, Central Checkpoint, Non Process Area	Sewage	1.50	At approx. 0300 hours, checkpoint personnel smelled an odor from the bathroom area. At approx 0730, checkpoint personnel contacted the 5700 line to report a leak in the plumbing. Approx 1 to 1.5 gallons of grey water was cleaned up. Veco maintenance advised the lift station float switches are bad and Veco would order and repair upon arrival. A temporary fix is in place until repairs are completed.	Contaminated material was chipped up and placed into bags for disposal. After the material was recovered, lime was spread over the area.	Material was taken to Pad-3 for disposal.	
4/1/04	2004-IR-855783	Well Pad, Roads, Pipeline rd. at the Little Put river, Non Process Area	Motor Oil	1.50	A bolt backed out of the oil filter housing of snow blower #53-008. This caused an oil leak on the pipeline rd. at the Little Put river.	Scooped up frozen snow mixed with oil with a loader and bucket and placed it into a dump box for disposal.	Material was taken to T-pad for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/31/02	2002-IR-279107	L Pad (Steamer Pad), L-pad at EOA	Diesel	1.50	18:30 (7/30/02), Combination Diesel / Methanol tank # 94-609 was put on steam by the steam operator per procedure for necessary maintenance work. An access hatch needs to be cut into the top of the tank. This will require some welding. (Procedure requires 24 hours of steam prior to welding/cutting on tank) 07:30 (7/31/02), Steam operator returned to L pad at approximately 07:30 after the morning toolbox meeting. When he arrived at the pad he noticed that there was a heavy misting on the ground in the area of the tank being steamed and the containment pit. There was an odor of diesel associated with it so he made the appropriate notifications. SRT was notified. 09:38 (7/31/02), Spoke with Lead spill tech and he received word from BP environmental that due to previous cases of this nature, and the fact that although the amount was mostly water, they had mixed prior to reaching the ground surface and the entire amount will be classified as diesel. Initial estimates by SRT place the amount at roughly 1.5 gallons. Additional information; The vent on this tank is unusually high (approximately 11¿ above ground level). This, accompanied by prevailing winds pushed the steam plume down to the ground soaking two areas around the tank, and the steamer pad containment pit. At no time was there any danger of the contaminate reaching the tundra. There were no injuries associated with this event.	Recovered material with Bobcat loader and placed into dump box for disposal at T-pad.	12 cubic yards of material taken to T-pad	
8/25/03	2003-IR-601745	Drill Site 15, DS-15 Pad entrance	Lube Oil	1.50	At about 1:15 pm. The drill site opperator discovered a couple of lube oil stains near the entrance of the pad. The stains were 2 to 3 feet in diameter. He immediately notified 5700. It is unknown at this time what may have caused the spill.	Contaminated gravel was recovered with a bobcat and dump box.	Material was taken to Pad 3 for disposal	
11/3/04	2004-IR-1114110	Drill Site 04, Drill Site #4, FS2/COTU	Hydraulic Fluid	1.50	Blade #58-306 leaked approx 1 1/2 gallons of hydraulic oil onto road between Drill Site #4 and Warm Storage Facility. The hydraulic tank cap was not in place. It is unclear how the cap came off. SRT notified. Spill cleaned up. Environmental, SRT, Contractor and BP supervisor completed Incident Investigation.	Clean up led by SRT with assistance from Heavy Equipment Roads and Pads.	Material went to T Pad for disposal.	
2/25/04	2004-IR-816791	Spine Road, Spine Road near flowline crossing for Drill Sites 3,9,16&17 to Flow Station 2 and two other spots, Non Process Area	Transmissio n Fluid	1.50	While supporting the the Nordic 1 rig move from Niakuk to A pad on the night/morning of February 26-27, a front pump seal failed on vehicle # 213, resulting in 1.5 gallons of transmission fluid leaking onto the roadway. The driver was parked on the Spine Road near the flowline crossing of the Drill Site 3,9,16&17 wells to Flow Station 2 doing traffic control while rig mats were being removed from the road. This leak and two smaller ones in the direction of PBOC were noticed later by Heavy Equipment. After leaving the vicinity the truck was driving rough and was driven back to Tool Service.This vehicle was in the shop for routine maintenance the day before this incident and no drips, leaks etc were noticed. The mechanic says the cause was cold weather and "wear and tear". The vehicle is at present out of service waiting on parts to repair it.	Grader, loader, and Bobcat were used to remove contaminated material.	Matreial went to T pad for disposal.	
4/23/02	2002-IR-220239	Drill Site 18, DS18 on the pad under the "D" common line	Fresh Water	1.50	Methonal/water spill was noticed when pickling C/L 'D' at DS18. There was a packing leak on a valve on the common line.	Recovered material with Bobcat and Supersucker. Material recovered with Bobcat placed into dump box for disposal.	Material taken to G&I for disposal.	
4/23/02	2002-IR-220239	Drill Site 18, DS18 on the pad under the "D" common line	Methanol	1.50	Methonal/water spill was noticed when pickling C/L 'D' at DS18. There was a packing leak on a valve on the common line.	Recovered material with Bobcat and Supersucker. Material recovered with Bobcat placed into dump box for disposal.	Material taken to G&I for disposal.	
7/4/07	2007-IR-2329948	Access Road, S-pad access road, Non Process Area	Hydraulic Fluid	1.50	An employee reported seeing a spill on the access road entering S-pad and 2 buckets were along side the area. The employee reported it to the drilling rig company man and he reported it to 5700 and SRT responded.	A Bobcat and trimmer were used to remove contaminated gravel from roadway.	The material was taken to Pad 3	
10/9/05	2005-IR-1576439	Well Pad B, B-34 , GC3	Hydraulic Fluid	1.50	While operating valve closure hydraulic system, a fitting on the return line to the B-34 hydraulic tank leaked 1.5 gals of hydraulic oil on pad.	Shovels were used to recover contaminated gravel.	The gravel was taken to Pad 3	
3/31/05	2005-IR-1304036	Fleet Shop, Bull rail at fleet shop, Non Process Area	Hydraulic Fluid	1.50	Loader #52-244 was parked at the bull rail awaiting parts to be delivered so it could be repaired. The rear differential seal leaked into containment placed under the loader but the containment leaked also, causing 6 quarts of 0W30 hydraulic oil to leak onto the pad.	Contaminated snow was recovered with a loader and hand tools and placed into a dumpbox for disposal.	Taken to T-pad for disposal	
5/30/07	2007-IR-2288985	L-2, Drill Site L-2, GPMA	Crude Oil	1.50	Pipe section leaked oil after being removed from pipeline.	Removed contaminated gravel.	Grind and Inject facility	
4/21/06	2006-IR-1804849	Access Road, road between E and G pads, Non Process Area	Motor Oil	1.50	While driving on the access road between E and G Pads, the equipment operator was alerted by a warning light/buzzer on console of the equipment indicating an oil problem. The operator stopped to investigate and found motor oil leaking from the oil pan area. After making the required reports, the VMS found the cause to be a petcock valve stem had backed out of the seat and fallen into the belley pan of the loader. The stem was replaced.	A grader and loader were used to remove contaminated snow from access road.	T-pad storage pit.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/19/02	2002-IR-427685	Drill Site 16, DS16 manifold building	Transmissio n Fluid	1.50	Transmissin failure while parked on well pad.			
2/25/94	1994-IR-88644	Santa Fe Pad	Diesel	1.50	OPERATOR ON FUEL ISLAND PLACED NOZZLE INTO FILL SPOUT AND LOCKED IT IN AUTOMATIC. HOSE JUMPED OUT WHEN FULL, BUT DIDN'T SHUT ITSELF OFF, FELL TO THE GROUND AND ALLOWED 1 1/2 GALS OF FUEL TO LEAK ON THE GROUND. OPERATOR GRABBED NOZZLE AND SHUT IT OFF MANUALLLY.		Material placed into three (3) fifty-five (55) gallon over packs, melted and skimmed. Diesel brought to Fire Training group. Wtr to dirty wtr tankd GC-1.	Operator of fueling station placed nozzle into fill spout and turned on, nozzle jumped out of spout spilling fuel onto Pad. Operator grabbed nozzle and turned off.
11/23/92	1992-IR-86634	Spine Road	Lube Oil	1.50	The crank case breather pipe on a 966 loader froze and ruptured while in transit causing the discharge of lube oil onto the Spine Road. All contaminants were scraped up with a bucket loader and shovels and taken to A3W2. The ruptured vent pipe was replaced.		All contaminated material was placed into the melt tank at A3/W2 for melting and disposal.	The crankcase breather pipe on a 966 loader froze and ruptured while in transit causing a discharge of lube oil onto the spine road.
6/5/93	1993-IR-86733	GC-1 Pad	Crude Oil	1.50	Liner on oily waste dumpster was inadequate. Tears and holes allowed fluids to leak out the bottom. All materials were scraped up with loader. Materials were taken to Arco Pad 3.		Materials were taken to Arco Pad 3.	Liner in oily waste dumpster was inadequate. Tears and holes allowed fluids to leak out the bottom.
6/5/93	1993-IR-86733	GC-1 Pad	Lube Oil	1.50	Liner on oily waste dumpster was inadequate. Tears and holes allowed fluids to leak out the bottom. All materials were scraped up with loader. Materials were taken to Arco Pad 3.		Materials were taken to Arco Pad 3.	Liner in oily waste dumpster was inadequate. Tears and holes allowed fluids to leak out the bottom.
12/31/00	2000-IR-95805	Bulk Chemical Building	Corrosion Inhibitor	1.50	DRAFT: The operator had completed filling tanker compartments 1 and 2 to 90% capacity before lunch. After lunch the operator reconfigured the loading operation and placed containment in the appropriate locations to fill tanks 3 and 4. The operator began loading tanks 3 and 4 through the tanker pump. While standing by the loading operation the operator heard leaking from the top of tank #1 and witnessed liquid coming from the overhead hatch drain down the side of the tanker. The operator immediately shut down the loading operation. The staged spill containment was placed under the leak and the operator proceeded to transfer the liquid in tank #1 to tank #4 to reduce the quantity of liquid in tank #1. Incident notifications were in accordance with procedure and clean up initiated. The incident is a result of the internal (DOT) valve on tank #1 not being closed and the stationary storage tank gravity feeding tank #1 as the liquid was being transferred to tank #4. The approximate quantity of corrosion inhibitor to spill was 1.5 gallons.	Contaminated snow on gravel pad was shoveled into bags using hand tools. Material in drip pan was wiped out with absorbent pads and disposed of in oily waste dumpster.	Contaminated snow was melted down and used on a well job. Absorbent pads were taken to oily waste dumpster.	
4/6/00	2000-IR-94832	GC-2 Pad	Diesel	1.50	While filling the diesel day tank to the firewater pump engine outside skid 32, the tank was overfilled and ran out the vent onto the gravel pad.	Impacted snow shoveled up and placed in bags.	Nonhazardous material will be taken to Pad 3 for disposal.	
8/1/03	2003-IR-582829	Lisburne Production Center, outside of 4931 on the pad	Motor Oil	1.25	A containment was placed under the compressor to catch potential leaking oil. The containment didn't catch all the oil as it was not placed properly.	Bobcat, dump box were used too remove contaminated material.	Material was brought to Pad 3 for disposal.	
12/2/96	1996-IR-89661	Spine Road	Diesel	1.25	Peak Tire Truck K-186 was traveling on the spine road from Deadhorse enroute to Kupark. The vehicle markings on the roadway indicated it drifted off the right side of the roadway onto the soft shoulder. The right front and rear tires were off the roadway for approx. 191 ft. before returning to the road. The vehicle overcorrected causing the truck to skid approx. 67 ft. The right front wheel impacted the soft sholder on the left(South) side of the roadway causing the vehicle to spin and roll onto its right side. The vehicle came to rest approx. 26 feet off the South side of the roadway facing east. The angle of the vehicle allowed fuel and hydraulic fluid to leak from the vehicle. See ARCO MVAR #K96-094			Vehicle accident. 5 ton tire truck contacted soft shoulder causing driver to lose control, skid off roadway, and flip vehicle on its side. This allowed fuel and hydraulic fluid to leak from vehicle.
7/5/99	1999-IR-94073	GC-3 Gas Section	MEG	1.20	Operator discovered a leaking MEG union dripping on the ground. Isolated leak and reported spill.		ARCO Pad-3	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/15/02	2002-IR-168186	Pad 3, Cell 2, Pad 3	Crude Oil	1.00	A sheen was noted outside the containment at the Pad 3, Cell 2 location. The original occurrence of the release is estimated to be 6/26/2001.	This will be addressed as part of the corrective action plan for this site.	Cell 2 closure plan is currently awaiting Agency approval.	This release is associated with a site under the jurisdiction of ADEC Solid Waste Permit 9536-BA004. Corrective action regarding this release was initiated in fall of 2001 through the ADEC Solid Waste Program, as Pad 3 is a permitted solid waste facility. Judd Peterson, of the Solid Waste Program, has been notified of this release. Interim corrective action was performed in August 2001. A corrective action plan and implementation schedule was submitted to the ADEC Solid Waste program and approved in the fall of 2001. Approval of the waste removal was contingent upon ADEC and AOGCC authorization of waste disposal at the G&I facility. This approval was granted in January 2002. The final waste removal plan is being prepared at this time. Initial waste excavation is tentatively planned for spring 2002.
9/6/01	2001-IR-115061	Sag River, DS # 17 to Sag River Via pipeline road and spine road	Hydraulic Fluid	1.00	Motor grader being transported to fleet shop leaked hydraulic fluid from broken hydraulic hose onto Sag River bridge. It was estimated that 1 pint spilled into Sag River through openings on bridge floor.	Spots on gravel road were scraped up with bocat. Contaminated gravel from beach under Sag River Bridge was shoveled up and bagged. Matrial that was on metal grating of Bridge deck was burned off with weed burner.	Contaminated gravel was brought to pad 3, sorbents brought to waste dumpster.	Notifications to NRC, and State Troopers was made as soon as we were aware that contaminate reached the water. This spill was 2 qts. with 1 pint released in to Sag River. Traction will not allow you to input fractions of gallons.
8/20/03	2003-IR-598731	Well Pad R, R-02	Diesel	1.00	The pad operators discovered a drip from a loose fitting on the annulus jewelry on well R-02. The type of material was initially thought to be 50/50 methanol/water due to the lack of odor. When a sample was collected, it appeared to be diesel.	Shovel up contaminated gravel and put in dump truck.	Grind & inject disposal facility.	Note: Orginal report sent in on 8/20/03 and stated material was 50/50 Methanol/Water. After clean up actions and sample from well head at point of leak it was determined to be diesel.
2/24/02	2002-IR-172053	Niakuk Pad, Niakuk Well # 12	Fresh Water	1.00	On 2/24/02 at approximately 15:45 hours an employee was delivering fluids to an upright tank located near Niakuk 12 for upcoming Coil Tubing work. The employee set out his spill containment, hooked up his hose to the upright tank and proceeded to build pressure in the Vac unit to offload 290 barrels of Slick 2% KCL. While in the process of offloading, the employee happened to glance up the left side of the Vac truck and he noticed some fluid dripping from an access door on the front doghouse. The employee investigated the dripping and discovered that fluid was leaking around the front packing of the agitator shaft. The employee attempted to tighten the packing but this had little effect on the leak. The employee then shutdown the offloading process, bled the Vac truck to 0 psi and began to build a vacuum to stop the leak. He evacuated his offloading hose, disconnected the hose from the tank and notified his foreman. SRT was also notified. The employee was instructed to return to the Drill Site Maintenance shop while maintaining a vacuum on the tank. Upon arrival at the shop the remaining fluids were transferred to another Vac truck and the defective Vac truck was taken to the Fleet shop for repairs. Investigation revealed that the inner flange on the packing assembly had failed. There were no injuries or property damage as a result of this incident. Approximately 1 gallon of fluid reached the snow covered pad, and at no time was the released fluid in danger of reaching the Tundra or the Ocean.	Ice and snow pack were chipped up with chippers and shovels.	material was brought to Pad 3 for disposal.	Water that was spilled contained 2 % KCL which placed it the chemical classification, and required immediate reporting. Spill was called in to Troopers at 17:00 by Thomas Cumming.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/20/03	2003-IR-598019	L-5, L5 relief pit	Crude Oil	1.00	While blowing down the blowcase one gallon of crude misted into pit.	Material will be recovered with hand tools and placed into oily waste bags for disposal.	Cleanup material was taken to G&I for disposal.	Operator printed up and followed SOPS prior to job. *Updated report* Initial report stated that water had been affected but the spill was to gravel and not near any water.
1/5/04	2004-IR-734688	Well Pad Q, Q-5, GC2/SAT	Diesel	1.00	After completing a Coiled Tubing memory logging run on Q-05A, a crew member discovered diesel drops from the coiled tubing injector stripper lube system on the snow behind the wellhouse at Q-06. The wind had broken a bungee cord on the down wind side of the injector tarp. All notifications were made.	The contaminated snow has been removed from the reserve pit and pad area with heavy equipment, hand tools and snowmachines.Snow was then loaded into a dump truck for transport to disposal area.	Contamimated snow is being taken to T-Pad Storage Pit.	Initial report for this incident was sent on 1/5/04. Call into NRC and received number 709715. Per Janet Platt, went to reserve pit. Spill to land, but not NRC reportable.
11/29/03	2003-IR-694235	Flow Station 2, Flow Station Two - Outside Module 4916	TEG	1.00	The oily waste receptacle delivered to the FS for the TEG changeout in October was picked up on 11/29/03. After removing the dumpster, it was discovered that small quantities of both hydraulic fluid and glycol had leaked to the snow and gravel pad. As the dumpster was lined, and the waste was contained in oily waste bags, the seapage occurred from both the bags and the dumpster.	Bobcat, Loader, and dump box were used to remove contaminated material.	Material was brought to T Pad for disposal..	Spill Investigation: Met with Joe Ralph. FS2 had put a double liner inside the dumpster, but the liner broke. FS2 will check the integriy of the liner in the future.
11/13/07	2007-IR-2465739	Drill Site 06, GPB, EOA, DS-6, FS3	Corrosion Inhibitor	1.00	The DSO operator identified the CI release at DS 6 at approx 1500. The CI had released into the drip pan under the chemical unit but did not release to the floor of the mod. At this time it is uncertain if the cause of the release is due to diaphram failure in the pulsation dampener or due to a hairline cracked pump head. The pump head will be replaced regardless. The hairline crack possiblity in the pump head is a previously identified condition due to manufacturer design and heads are being replaced as needed.	The spilled Corrosion Inhibitor was soaked up with absorbent pads.	The lightly contaminated absorbent pads were bagged and taken to an approved NSB oily waste dumpster.	The hairline crack possiblity in the pump head is a previously identified condition due to manufacturer design and heads are being replaced as needed
3/21/07	2007-IR-2200249	Flow Station 1, FS1/SIP/STP	Natural Gas Liquid (NGL)	1.00	Unknown historic contamination discovered on 3/21/2007 while drilling a hole for a VSM on the new pipeline behind FS1.	None. Historic hydrocarbon contamination discovered while drilling VSM hole. Site assessment work and sampling completed.	Cutting from VSM drill hole were taken to Pad-3 for storage and remediation.	Sampling indicates contamination from Natural Gas Liquids. Area to be turned over to contaminated sites. This is historic contamination.
7/26/04	2004-IR-990198	Drill Site 06, THE RELIEF PIT AT DS-6, FS3	Crude Oil	1.00	WHILE DEPRESSURING THE TEST SEPARATOR AT DS-6, APPROXIMATELY ONE GALLON OF CRUDE SPRAYED ON THE GRAVEL AROUND THE RELIEF PIT FROM RELIEF PIT TANK. AN OPERATOR WAS WATCHING THE TANK WHILE THE TEST SEPARATOR WAS BEING DE-PRESSURED AND DID NOT OBSERVE ANY SPRAY FROM THE TANK. THE CRUDE OIL MIST WAS DISCOVERED DURING ROUTINE INSPECTION OF THE PIT A FEW DAYS LATER.	Hand tools were used to recover the contaminated gravel and sorbent pads were used to pick up the sheen on the water.	The contaminated gravel was taken to G&I for disposal.	The relief pit is 60% tundra aand 40% water. A small portion of the water in the pit was effected. Immediate notifications were made.
5/9/05	2005-IR-1360482	Well Pad X, X-Pad skid 56 Envirovac System, GC3	Sewage	1.00	At approximately 10 AM, a small grey water spill was noticed under skid 56 on X-pad. Estimated volume was 1 gallon.	Contaminated material was shoveled into a bag.	Contaminated snow was taken to T-Pad storage pit.	Spill was verbally reported as being at F-Pad but incorrect information was provided. Spill location was X-Pad manifold building.
7/16/02	2002-IR-282066	Central Gas Facility, Mod. 4939 Hydraulic skid- pressure gauge	Hydraulic Fluid	1.00	Pressure gauge failure on the hydraulic skid. Event discussed with all the operations crew, even though they were not involved with the incident.			Actual Spill was 350 gallons. Number changed to circumvent the London Operate 1 report as it is picking this IR up as a spill.
4/28/05	2005-IR-1342319	Drill Site 02, DS-02, well 02, inside wellhouse, on flow line, @ flowing tubing press. gauge., FS1/SIP/STP	Methanol	1.00	Needle valve packing on flow line leaked methanol in side well house within cellar near tree.	Contaminated snow recovered with hand tools.	Contaminated snow will be melted down and reused fo freeze protection.	Immediate notifications were made. Also reference attached team spill review file for details on cause/recommendations.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/7/01	2001-IR-100974	Well Pad D	Methanol	1.00	Dowell CTU #3 was rigged up on D-Pad, well #9 preparing to execute an acid job. The crew had performed a BOP test and was attempting to bleed off the fluids in their lubricator. According to their guages, the presure in the lubricator had been bled to zero. The crew waited a brief period of time to ensure that the methanol had drained to the slop trailer. They then opened the Whitey valve on the lubricator to allow air into the system to assist in draining the fluids. After waiting briefly the crew assumed the fluid was evacuated from the system and disconnectd the lubricator. The lubricator was picked off of the BOP, and 60/40 methanol was released onto the well house . A small amount of fluid flowed down the tree and some of the fluid ran off of the well house roof and onto the snow covered pad. The CTU crew immediately notified the Well Operations Group Supervision and the Enviornmental Department of the spill. A Spill Technician was dispatched to location where and estimated the volume to be 1 gallon. The spilled fluids were cleaned up and disposed of properly. There were no injuries as a result of this incident and there was never any chance of the fluids reaching the tundra. A spill review meeting was held on March 8,2001 @ 2:00 PM in the conference room at the Dowell facility in Prudhoe Bay.	Hand tools were used to remove contaminated snow and gravel.	Material will be treated as hazardous waste and shipped as same.	A spill review meeting was held on March 8,2001 @ 2:00 PM in the conference room at the Dowell facility in Prudhoe Bay.
11/30/05	2005-IR-1635288	Well Pad H, Skid 59 H pad; Corrosion inhibitor system, GC2/SAT	Corrosion Inhibitor	1.00	Pad operator found pump head spraying corrosion inhibitor out the face of the pump. Pump has not been disasembled yet. Suspect pump head failure via crack in casting.	Sorbant material was used to clean up spilled material and containment	The sorbant material was taken to an approved NSB oily waste dumpster.	Verbal notification was made by GPB West enviromental advisor Jim Short on 11/30/05 at appproximately 9:30 am.
1/26/07	2007-IR-2132729	Main Construction Camp (MCC), MCC Projects Bull Rail, Non Process Area	Sulfuric Acid	1.00	An employee driving a Ford F-550 truck (26-190) pulled into the parking lot at the end of shift, approximately 7:00 p.m. in front of MCC and parked it for the night. He plugged it into an electrical outlet but noticed the outlet was not working so he moved the truck to a different parking space and plugged it in there. He turned the truck off. At 1:40 a.m. a night house keeper noticed the truck was on fire and called the fire department. When the fire department arrived a fireman found the electrical panel and pulled the main breaker for the entire bull rail. Later it was discovered that the circuit that the truck had been plugged into had been tripped.	Bobcat trimmer was used to remove contaminated snow and placed into a bin for melting and disposal.	Material is in a melt tank, and has been sampled for RCRA Metals. Results will determine disposal. Based on analytical data, the melted snow went to Pad-3 for disposal.	Attn: Tom DeRuyter, Sample results will follow this report. Ageries were notified of release.
2/4/01	2001-IR-98914	Well Pad E	Methanol	1.00	Job Description for Coil Tubing Operation unit #3 on E-Pad Well 18: While fishing for a perforation gun the o-ring between the Injector and the Lubricator failed causing approximately 1.5 gallons of 60/40 MEOH, that had been down hole, to spill. The depth of the coil was 6300 feet with 300 psi on the well head. AT the time of failure the pipe rams were closed, the slip was set and the pressure bled off the Lubricator. During this response the well pressure fell to 0 psi. After the well pressure was confirmed to be 0 psi he pipe ram was opened, the slips pulled and the coil tubing was pulled out of the hole. Prompt supervision and SRT notifications were made by the on-site crew. CTU #3 was rigged up on 2/3/01 and the o-ring was new and placed into service at that time. The Lubricator assembly had been pressure tested to 4000 psi on 3 separate trips down hole prior to the o-ring failure. The unions between the injector and the lubricator had not been broken since installation.	The crew on the coil tubing unit and the ACS spill tech.'s shoveled the contaminated snow into oily wasted bags for disposal. The well house and well tree were wiped down with absorbent.	The contaminated snow will be disposed of at pad 3. Absorbent pads were placed in an approved oily waste dumpster.	Spill has been reported to AK State Troopers (ADEC after hours) spill hot line @ 10:25 0n 2/4/01.
6/12/01	2001-IR-101575	Santa Fe Pad	Sulfuric Acid	1.00	Monthly inspection was being conducted on the ERT generator, when power was introduced to the generator the battery exploded.	Soda was used to neutralize and rags and sorbents were used to wipe affected area inside the generator and on the outside. Gravel was removed with shovels.	All sorbents and gravel were packaged in plastic bags and taken to the Hazwaste storage building (POL).	This information is being provided to fulfill spill notification requirements under 18ACC75 300.
10/4/07	2007-IR-2430470	Flow Station 2, Flow#2 Tank 1981, FS2/COTU	Paint	1.00	At approximately 12:10 p.m. the CH2MHILL coatings lead told the CCI Poly lead that he had spotted fluids leaking from the poly hose. The CCI crew immediately took measures to stop the leak and contain materials released.	Poly crew bagged material.	Material went to Hazwaste.	Agencies were notified of release. Note: This material is not Paint. It is Polyurea part B
1/10/03	2003-IR-411895	Drill Site 05, 30 FEET BEHIND THE WELLHOUSE ON WELL 5 @ DRILL SITE 5.	Methanol	1.00	A LEAKING FLANGE ON A FLOWLINE RELEASED APPROXAMATELY 10 GALLONS OF DEAD CRUDE ONTO THE PAD.	Material recovered with hand tools/loader and placed into dump box for disposal.	19 cubic yards of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 1-10-03.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/17/03	2003-IR-416343	Central Checkpoint, Central check point	Sewage	1.00	Vac truck driver went to Central Checkpoint to pump out sewage tank and found that the valve was frozen. Tried to open the valve, but found it very difficult and soon found that there was ice in the valve. Driver closed and capped the valve and had Security call for a Tioga. Tioga was put into place to thaw valve. Security called the driver again to come and pump out the tank as the Tioga had been on it for approximately 1.5 hours. When driver returned, Security had notified him that some residual sewage had leaked out onto the ground. SRT was notified to clean up the spill. An estimated 1 gallon of sewage was recovered. Valve was inspected by maintenance supervisor and found to be the wrong type of valve for the application. Current valve needs to be replaced with a ball valve that would not allow seepage in sewage applications. Also, the door to the insulation box is only being held in place by a bungy cord, allowing cold air to easily infiltrate the valve box. Ice and snow build-up were found inside the box around the valve handle assembly. This could have added to the malfunction of the gate valve.	Recovered material with hand tools and placed into container for disposal.	1 cubic yard of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 1/17/03
9/3/02	2002-IR-303993	Drill Site 15, East side of DS15, in pipe rack.	Crude Oil	1.00	While pressure testing artificial lift piping, a valve in the system began dripping methanol and crude from body, onto ground.	Material recovered with hand tools.	1 cubic yard of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 9/3/02.
9/3/02	2002-IR-303993	Drill Site 15, East side of DS15, in pipe rack.	Methanol	1.00	While pressure testing artificial lift piping, a valve in the system began dripping methanol and crude from body, onto ground.	Material recovered with hand tools.	1 cubic yard of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 9/3/02.
10/3/06	2006-IR-2015488	Drill Site 14, DS 14 Pipeline Road, FS3	Sewage	1.00	The wind blew over a portable toilet that was placed along the DS 14 pipeline road.	Hand tools were used to recover the contaminated gravel.	Gravel to Pad 3 for storage until thermal remediation.	Lime was used over the area that spilled. Immediate notifications were made.
9/30/05	2005-IR-1563276	GC-2, GC-2 Tank 8511, GC2/SAT	Paint	1.00	Employee was disposing of some paint cans that had trash and rags in the bucket. He loaded them into a trash bag and sealed the bag. As he was lifting the bag into the back of the truck, a lid from one of the cans sliced the bag spilling the contents on the ground. As he was cleaning up the trash he noticed that one of the buckets still had some non-catalyzed residue that had spilled onto the ground. He picked up the bucket to prevent any further spillage and controlled the spill with some absorb. He then notified his supervisor.	Hand tools were used to clean affected gravel.	The affected gravel and sorbent materials along with PPE were taken to the GPB Haz-waste coordinator for proper disposal.	Coating operations are scheduled to resume not sooner than October 14, 2005
5/18/04	2004-IR-906775	Oxbow Road, Oxbow road near DS 15 intersection, Non Process Area	Diesel	1.00	On 5/18/04 approximately 1 gallon of diesel was released to the road surface from the hose of a 22bbl diesel trailer. The trailer hauler had picked up diesel trailer #94-620 from ¿S¿ pad on the west side of the field and was in route to pad 10 on the east side of the field. Prior to leaving ¿S¿ pad, the trailer hauler performed a 360 to ensure the trailer was ready for travel. The pre-trip inspection included ensuring the valve was in the closed position and the hose was capped and secured to the trailer. The hose is secured by wiring the free end of the hose to a vertical support for the handrails with a piece of bailing wire. When the pre-trip inspection was completed the trailer hauler departed ¿S¿ pad for Pad 10. The driver stated that the roads were in very rough condition so his speed was limited to 10 to 25 mph depending on road condition. As the trailer hauler was negotiating the corner on the Oxbow road near the Drill Site 15 turn off he noticed in his rear view mirror that the hose had fallen off the trailer and was dragging on the ground. The trailer hauler stated that he stopped immediately and when he got out to check the trailer he found that the hose had wrapped around the front axel on the diesel trailer. He also noticed that the hose was leaking so he put some absorbent pads under the leak and he then reported the incident. SRT and all other appropriate notifications were made. SRT responded to the scene and determined that approximately 1 gallon of diesel had leaked out of the hose onto the road	Hand tool's, and weed burner's were used to remove contaminate from road surface.	Contaminated gravel was brought to Pad 3 for disposal. Weed burners were used to burn Diesel from Chip-seal.	Permission to burn Diesel on Chip-seal was given by Walt Sandel of ADEC.
2/13/01	2001-IR-100516	Niakuk Pad	Diesel	1.00	While checking wells I noted that diesel was dripping from the packing on a needle valve on the inner annulus of well Niakuk-08. I isolated the valve, bled off and replaced leaking valve. I shoveled contaminated gravel into an oily waste bag. I then reported spill to x5700 and called SRT lead tech to come out and inspect site. He completed cleanup and estimated spill at 1 gallon of diesel and requested I fill out this LCIR.	Recovered product with hand tools and placed into bags for disposal	1 cu. yd. taken to pad 3 for disposal	Material had been used for downhole freeze protection and is a class II
7/31/06	2006-IR-1923329	Well Pad J, J-pad Well # 7, GC2/SAT	Corrosion Inhibitor	1.00	While Operator was performing well house inspections with DEC reps they noticed a very slight stain on the tree casing at J-pad well 7. SRT was next door responding to a hydraulic leak. The chemical operator and SRT where notified. The chemical operator cleaned the drip. The drip came from a NPT fitting on the injection system check valve. The chemical operator removed the fitting, applied Teflon tape and reinstalled the fitting.	Material was cleaned up with rags.	The contaminated material was taken to NSB oily waste dumpster.	This spill was a table spoon of corrosion inhibitor in a 4x4 inch area

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/4/01	2001-IR-130733	Central Gas Facility, CGF pad	Methanol	1.00	Facility was in the process of receiving methanol from a tanker truck (field services truck number 42-034). Fluid transfer operation had been initiated following set-up/signoff between area operator and truck driver. The fluid transfer was underway for approximately 10-15 minutes, when the facility operator, viewing from a window, observed a methanol spray coming from the truck pump discharge camlock connection against the metal deck of the truck. He immediately contacted the driver to shut down his pump, then to reverse flow to suck out liquid in the hose to prevent any further release. There were containment measures taken prior to fluid transfer, but due to the location of this leak, a small volume (< 1 gallon) ran across the walking/working surfaces of the truck and drained off the edge to snow on the gravel pad. The spill was cleaned up with available resource. Contaminated snow was picked up and taken in a bag by the truck operator for disposal. Area opertor put absorbent pads down as well. Little evidence of actual gravel contact (~6" diameter stain").	Truck driver took part of snow for disposal. SRT took up more snow with shovel and bag. Also took up contaminated gravel with pick, shovel and bag. SRT got the bag of contaminated snow from the truck driver.	Via Methanol truck driver. SRT got the snow from the truck driver. Snow melted and recycled. Gravel will be taken to haz-waste processing module for disposal.	Although spill occured at 10:00 SRT was not notified untill 13:50.
1/28/03	2003-IR-423592	Oxbow Road, Oxbow Road	MEG	1.00	Employee was delivering a Vac Truck to Drill Site 15. As employee approached the Dump facility on the Spine road employee noticed the Vac truck begin to overheat. Employee shut the equipment down and placed a containment dike under the engine. Ethylene glycol spilled to the Oxbow chip seal. SRT was notified immediately. Mechanics on the scene determined the cause to be the radiator cover restricting air circulation.	Weed burner, and sorbent were used, as well as a Grader,m and hand tools.	Sorbent went to oily waste stream, ice and snow went to T pad for disposal.	Approval to use weed burners was given by Amanda Luffel of ADEC.
6/24/01	2001-IR-101706	PM-1	Diesel	1.00	Drill site truck 15-100 was driven to drill site PM1 to help off chemical. Truck was parked on location for 30 minutes then driven to PM2 and parked in front of control room. The operator working near the truck at PM2 smelled diesel and found it leaking from the truck's artic tank fuel filter. The filter leaked an estimated 1-gallon of diesel leaked on to gravel pad. The truck was shutdown; absorbent pads and a spill dike were placed under the leak. The operator called the auto shop to report the trouble and inquire about the location of an isolation valve for the arctic tank. The isolation valve was closed and spill reported to x5700 by the lead drill site operator. The operator using another truck traced his recent travels and found another one-gallon diesel spot at PM1 where the truck was parked while off loading chemicals. This additional spill was called in to x5700. Suspect a rock punctured fuel filter mounted under truck while traveling to PM1 to help off load chemical.	Recovered with hand tools and placed into bags for disposal	1 cu. yrd. of lightly contaminated gravel taken to pad 3 for disposal.	This information is being provided to ADEC per 18 AAC 75.300.
5/26/01	2001-IR-101493	Drill Site 02	Motor Oil	1.00	Environmental Advisor Kym Dixon reported that a spill of an unknown hydrocarbon/grease type substance had occurred at Drill-Site 2. On-site inspection showed that an area to the West of Well 2-21 had been sprayed with the described unknown substance which resembled an oily grease. The area of light sprayed ground surface was on and off the drillsite pad. The area on the pad was approximately 30 by 40 feet, and the area off of the west side of the pad coved approximately 20 by 20 feet. The spill consisted of droplets of the material no closer than 3 to 4 inches apart. The SRT was informed of the spill and responded. The SRT estimated the total spill to be 1 gallon, with approximately 1 cup going off the pad. The area where the spill/spray occurred was snow covered and was cleaned up successfully. Well 2-21 had been going through several days of miscellaneous well work. No one with the Wells Group was aware of any type of spill or leak occurring prior to one of the Wells Group personnel observing and immediately reporting the sprayed area on the drillsite.	Recovered material with grader and hand tools. placed into dump box and bags for disposal.	20 cu. yrds. of material taken to Pad 3 for disposal.	This information is being provided to ADEC per 18 AAC 75.300
4/28/01	2001-IR-101316	Drill Site 14	MEG	1.00	spill was in side of bus and ran outside of bus. Spill was <1 gallon	Picks and shovels were used to pick up the contaminated gravel	Less than one yard of gravel was taken to Pad-3	This information is being provided to ADEC per 18 ACC 75.300
7/31/02	2002-IR-279121	Drill Site 16, Drill site 16 near well #1	Methanol	1.00	The injection pump operator moved a hose containing fluid that did not have a cap and spilled the fluid on the ground.	Recovered material with hand tools and placed into appropriate containers for disposal.	Material will be disposed of as hazwaste.	Immediate notifications made to the appropriate agencies.
3/14/03	2003-IR-459040	Flow Station 2, FLOW STATION TWO - NORTH SIDE OF MODULE 4949	Sewage	1.00	Small volume (1 gallon) of sewage leaked from drop point onto the ice and snow covered pad below.	Material was recovered with hand tools and placed into container for disposal at T-pad.	Material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies.
1/11/01	2001-IR-95858	Drill Site 13	Champion 1999-126A	1.00	While the Drill Site 13 operator was making routine well house checks, a leak on the continuous chemical injection system was discovered in 13-27. The leak was from the stainless steel tubing truck connection at the 1/2" "Aeroquip" fitting. The operator isolated the leak with a manual block valve in the well house. The spill was immediately reported to the Drill Site Lead technician and to 5700. SRT responded and cleaned the accumulated corrosion inhibitor off the floor of the well house.	Removed product on well tree and snow atop grating. Will remove product below grating in spring. Spring inspection revealed that 100% of product had been recovered during initial response.	Hazwaste Facility	This report is being provided to ADEC per 18AAC75.300.
3/5/02	2002-IR-179045	Checkpoint - Central, Central check point.	Sewage	1.00	While stoping at central check point sewage truck spill grey water from an uncapped transfer hose.	Recovered product with hand tools and placed into bags for disposal at Pad 3	1 cu. yrd of material taken to Pad 3 for disposal.	Reported to Alaska State Trooper @ 18:25 on 3/5/02.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/28/04	2004-IR-1189504	Well Pad U, GPB-West on U-pad inside wellhouse U-5, GC2/SAT	Methanol	1.00	Operator was doing readings and found methanol spill on U-5 well, which was shut-in and freeze protected with neat methanol. A pipe plug on the s-riser pressure gage instrument manifold had started leaking, but was fairly tight and had adequate teflon tape. Operator tightened plug and retested the plug for leakage. Operator removed, cleaned, retaped and re-installed the piping plug. He again pressure and leak tested the plug and called x5700 and the Lead Operator. Environmental cleaned a 20x20" area of contaminated gravel and estimated a 1 gallon methanol spill.	Shovels were used to remove contaminated gravel from Well house.	Material was taken to the SRT accumulation bin and will be taken to Grind and Inject facility.	The verbal notification was made 12-27-04 @1716
12/4/92	1992-IR-91619	Drill Site 07	MEG	1.00	Radiator hose failed while driving on the road.		Plastic bag was emptied into A3W2 melt tank.	Radiator hose failed while driving on the road.
12/3/06	2006-IR-2080212	C Pad, C-Pad, Non Process Area	TEG	1.00	While operator was inspection work area he discovered a Quantity of WR-6 soap leaking out toe top cover of a tote on the Drum Dock.	Hand tools and rags were used to recover the spilled material.	The recovered material was put back into a container to be reused. Rags were disposed as oily waste.	Material spilled was WR-6 Cleaner/Degreaser.
8/7/02	2002-IR-284051	Well Pad V, V-pad Skid	Corrosion Inhibitor	1.00	Initial Report: While the Chemical Operator was filling Corrosion Inhibitor Tank for the first time at V-pad. The Chemical Operator was getting ready to radio the Transport tanker and have him shut down, the tank was still 7" from the top of the Tank (according to the sight gauge), when Corrosion Inhibitor started leaking from the top of the tank around the vent line, they shut down operations and notified there supervisor and the Environmental dept. the sight gauge continued to rise another 3" after the pump had stopped, to approx. 4" from the top of the tank.	Contaminated material in containment pit has been sucked out with a vac truck. Tank and containment has also been hand wiped with absorbent pads.	Contaminated water will be taken to pad 3 for disposal. Contaminated absorbent pads will be placed in an oily waste dumpster for disposal.	Cause has been changed from initial report.
2/23/03	2003-IR-442450	PBOC, Under administration wing at PBOC	Sewage	1.00	A 4" copper sewage line in Administration Wing utilidor ruptured due to freezing. Discovered due to odors that residents reported to maintenance department. Further investigation discovered the ruptured line. Sewage line serviced mens restroom on the second floor of that wing. This incident came after severe cold weather and high wind conditions that lasted for several days. Cold air came in through a crack in the plywood that serves as the floor of the utilidor.	Area will be limed to kill Bacteria on gravel.	Lime Area.	Notifications were made to agencies.
2/16/02	2002-IR-168884	Seawater Injection Plant, Valve on Flow Staion 1 PWI line at SIP.	Produced Water	1.00	SIP Operator noticed a large accumulation of ice on PWI valve, the ice was built up enough that it was touching the ground(pad). The ice was melted and a small leak was found on the valve. Most of the ice was removed but a small amount is still frozen to the ground.	Recovered material with hand tools and placed into appropriate container for disposal at Pad 3.	1 cubic yard of material taken to Pad 3 for diposal.	Initial report submitted on 2/16/02
5/12/05	2005-IR-1365436	Flow Station 1, FS1 Outside Module 4912, FS1/SIP/STP	Corrosion Inhibitor	1.00	While filling the CI tank in module 4912, a small amount of product 'burped' out the vent. The sight glass apparently was not equalilzing with the tank at the same rate of fill.	Hand tools, bobcat, and dumpbox were used to remove contaminated material.	Snow was tested for flash and brought to T pad for disposal. Graved was tested for flash and brought to Pad 3 for diposal.	Agencies were notified of release.
2/22/05	2005-IR-1251965	Drill Site 15, DS 15-09, FS3	Methanol/ Diesel (50/50)	1.00	A slickline crew was applying gas from neighboring AL line in order to push fluid from lubricator into tubing. Maximum gas pressure from AL source was 1400#. It was noticed that the swivel NPT connection began to weep and while investigating, the fitting failed and separated. A worker was on the wellhead access ladder at the time of the failure. The whip check contained the hose, and the gas was shut in at the source, while the needle valve on the lubricator was also closed. The worker was uninjured and was taken to camp to change his coveralls as they were wet on the right side from the fluid. An estimated amount of one half gallon of diesel/methanol was released. All fluids were contained within the well house. Some hitting the wellhouse wall and floor, and some into the secondary containment put in place by the crew. On inspection, the Eaton female NPT swivel fitting looked sheared, as if there had been a flaw in the casting. SRT to clean up and dispose of oily material. The ambient temperature was approximately minus 18 degrees at the time of the incident.	Hand tools was used to remove contaminated material.	Contaminated snow was taken to G&I for disposal. Contaminated sorbets was disposed as oily waste.	Agencies were notified of release.
7/25/04	2004-IR-987025	Lisburne Production Center, LPC Module 4923, GPMA	Corrosion Inhibitor	1.00	Found approx 1/2 gallon of C1124A corrosion inhibitor in bottom of storage cabinet. Plastic container had tipped over and the CI had spilled out.	Used absorb to soak up and wipe cabinet clean.	Spill Response Team (SRT) collected bagged material. They took to Hazardous Waste Disposal Site.	Immediate notifications were made.
1/19/07	2007-IR-2126588	C Pad, C-Pad (EOA Stores), Non Process Area	Hydrochloric Acid (HCL)	1.00	Old batteries were transported from CPS to C-Pad for offsite disposal. When the heavy equipment driver went to offload the battery pallet he noticed the containmant bag around the batteries had liquid in it. He called his supervisor, who called the I/E Lead Tech to request that the battery technicians come to C-Pad. The battery technicians and C-Pad materials personnel contacted X5700 & X5800 and had the spill team respond. An ounce or so of battery acid did spill from the containment bag to the bed of the truck. It was neutralized and cleaned. A cracked battery jar was found. The batteries were all cleaned and packaged for disposal. Hazardous waste from the cleaning, and containment bag were properly disposed of.	Battery acid was neutralized in the containment bag wrapped around the batteries. The bag was brought to the hazardous waste coordinator. There were a few ounces of liquid that escaped the containment bag. These were found on the bed of the truck. This was neutralized and properly cleaned and disposed of.	Contaminated absorbent and any liquids were brought to the Haz-waste coordinator for shipment.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/4/05	2005-IR-1530303	PM-2, PM2 4915 Corrosion Inhibitor Tank 2826, GPMA	Corrosion Inhibitor	1.00	CIC chemical tanker arrived on site with 550 gallons of corrosion inhibitor for the module 4915 tank. Start strap on tank was 5 inches. 550 gallons puts the end strap at 51 inches, as indicated in the chemical database as the max fill for the tank. Performed unified fluid transfer checklist with driver after hooking up to the chemical line. Verified communications and asked the driver to start his pump via radio. Verified flow in sight glass and informed driver. Informed driver at 43 inches that 100 gallons remained to be delivered. At 51 inches heard a loud bang and told driver to stop pump. Pump was shut down immediately. Flow appeared to have stopped in sight glass. Driver exited cab of truck and did not observe liquid coming from the vent. Walked out the door of the module, and the driver noticed liquid coming from the vent behind the building. Upon reentering the module, the tank level was above the sight glass window. Approximate 5 gallons of corrosion inhibitor came out of the vent before stopping.	Hand tools and sorbents were used to remove containate.	Samples were taken. Flash was greater then 140, and material was brought to Pad 3 for disposal.	Agencies were notified of release.
8/14/07	2007-IR-2373109	Well Pad G, G-06 well pad, GC1	Hydrochloric Acid (HCL)	1.00	During operations with about 135bbls of 12% HCL acid pumped away. A seal in the chicksawn apparently failed causing a spill. Operations were immediatly shutdown and operators with proper PPE were immediatly there to neutralize the acid and clean up. SRT, Cell Leader were notified immediatly and safety was notified 5.5 hours later in the morning. Crew had gone over contingency plan before the job and had immediatly put plan into affect after incident. Comments from location indicated that everyone was very efficient and the plan was followed to a T.	The spill was immediately neutralized with soda ash and the contaminated gravel was recovered with hand tools and placed in oily waste bags for disposal.	The contaminated gravel will be taken to pad 3 for storage and future remediation.	Immediate notifications were made.
5/6/05	2005-IR-1355727	C Pad, C-PAD Chemical Storage facility, Non Process Area	Corrosion Inhibitor	1.00	The bottom of Dempster tanker 94-517 sight glass developed a leak at the compression fitting joining the sight tube to the compression ring and spilled corrosion inhibitor onto the containment area in front of MOD 4911 at C-PAD.	Contaminated ice and gravel was scraped up with hand tools and placed into bags for disposal.	Contaminated material was melted down and sent to Pad-3 based on analytical data.	Immediate notifications were made.
3/19/06	2006-IR-1767665	Northern Gas Injection (NGI), NGI -07 Cellar, Non Process Area	Methanol	1.00	A pressure test was performed on the tubing to 4600 psi. Remote guages were used to prevent personnel from having to enter the well house while the test was performed. When the test was finished, it was discovered that the SSV started leaking methanol from the bleed port (tattle tale port). A bucket was put under the leak to catch the leaking fluid. Approximate volume that was spilled in the cellar was ~ 3 quarts or less. The fluid that was caught in the bucket was less than a quart and was placed back in the transport.	Hand tools were used to remove contaminated material.	Contaminated material was brought to G&I for disposal.	Agencies were notified of release.
8/7/05	2005-IR-1491842	Drill Site 13, DS-13, FS3	Sewage	1.00	Reserve pit dewatering crews portable potty blew over during strong wind gust at DS-13 leaking 1 gallon of sewage to the pad.	Hand tools were used to remove contaminated gravel.	Material was brought to Pad 3 for disposal.	Agencies were notified of release.
5/11/06	2006-IR-1829794	Flow Station 2, DRILLSITE 16 MANIFOLD BUILDING NEXT TO CORROSION INHIBITOR TANK, FS2/COTU	Corrosion Inhibitor	1.00	CORROSION INHIBITOR LEAKED FROM UNION ON TANK SIGHT GLASS	Absorbents were used to remove contaminated fluids.	Absorbent went to oily waste for disposal.	Agencies were notified of release.
6/14/03	2003-IR-538091	G&I Facility, G&I (Ball Mill EOA)	Drilling Mud	1.00	On 6/14/2003 at approximately 01:00am after offloading returned drilling mud from rig 9ES at the G&I plant, the Vac truck driver partially opened his blow down vent to release residual pressure from the Vac truck, approximately 5 psi. Upon opening the vent line, less than 1 gallon of the returned drilling mud that had accumulated in the vent line was discharged in a mist form to the side of the G&I plant, and onto the ground surface in the off-loading area. All of the material released was into secondary containment. Appropriate notifications were made.	Material was cleaned off building with rags and sorbent pads.	Material went to G&I for disposal.	Notification was made to ADNR.
12/30/04	2004-IR-1192162	Niakuk Well Pad, In front of NK-38, GPMA	Methanol	1.00	Soft spot in snow was found under the CTU reel sump after unit was rigged down and had been pulled away from original spot. Was found while performing post-job "walk around". Cause/source is uncertain at this time and under investigation.	Hand tools were used to remove material.	Material will be melted down for benificial reuse.	Agencies were notified.
9/29/01	2001-IR-120919	Drill Site 01, Drill site 1 seperator vent tank	Crude Oil	1.00	While depressuring A/L, through depressured test seperator to the seperator vent tank, the operator was monitoring the seperator pressure as it climbed to 450#. He then blocked in the vent and investigated the cause of the excessive pressure increase. Well 18 leaking test divert was found to be the cause. After checking the area of the vent tank, the operator reported the spill to SRT.	Recovered product with loader/hand tools and placed into dump box for disposal at G&I.	Product taken to G&I for disposal.	Spill 100% cleand up..
8/16/01	2001-IR-109627	Drill Site 14, Drill Site 14 Well 27	Produced Water	1.00	A leak and spill were discovered by the Alaska Clean Seas crew doing a site inspection at Drill Site 14. The source is coming from an insulated area at a saddle just behind the well house. The spill was estimated at 1 gallon but will be confirmed by ACS. The initial failure mode appears to be corrosion.	Bobcat, dumpbox, and hand tools were used to recover contaminated gravel.	Gravel will be taken to the Grind and Inject faciltiy for disposal.	None

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/23/04	2004-IR-752702	GC-3 Pad, GC-3 Skid 40, GC3	Methanol	1.00	The Chemical Operator was monitoring sight glass during filling operations at Skid 40 GC-3. Methanol sight glass failed to respond accurately to changes in tank level. Sight Glass still indicated available space for product in tank while tank was over-flowing. SRT estimated one gallon of Methanol contacted gravel pad, recovered and disposed by SRT.	All of the contaminated snow, gravel and methanonl was recovered with shovels and absorbent pads. The material was then placed into oily waste bags for transportation.	Contamiated snow will be melted down for benificial reuse. Contaminated gravel will be shipped of site as hazardous waste. Contaminated bags and absorbent will be shipped of site as hazardous waste.	
3/3/01	2001-IR-100950	Well Pad E	Methanol	1.00	The Veco rig up crew installed the hardline pipe for a coil tubing operation on well E-7. During the installation a Pre/Post job QC and spill champion checklist was completed. At 0530 hours, the rig up crew informed the coil unit that they hadn't completed the pressure test of the hardline surface piping. A discussion was held and the two crews agreed that the coil tubing crew would perform the pressure test. At 1000 hours, the coil tubing crew had filled the hardline with 60/40 methanol and began the low pressure test of the system. When the pressure test had reached approximately 600 psig a leak was discovered during the crews walk around inspection. The source of the leak was a chicksan hammer union connection that was not properly tightened. The position of the fitting was overhead connecting the riser to the pump-in-sub. A portable dike was not used do to the height of the fitting. The crew immediately shutdown the operation and notified the Well Ops Supervision and the Environmental Department. A Spill Technician was dispatched to location and estimated that 1 gallon of 60/40 methanol had been spilled onto the snow covered pad. The Spill Technician recovered the contaminated snow and disposed of properly.	The Coil Tubing crew has shoveled all of the contaminated snow and gravel into oily waste bags. The free standing liquid on the well cellar boards has been wiped down with absorbent pads.	Exempt class II gravel and snow has been placed in spot clean up bin # 1 and will be taken to Pad-3. All of the absorbents have been taken to an approved oily waste dumpster.	
1/22/07	2007-IR-2129323	Fleet Shop, PBOC Fleet Shop Work Rail, Non Process Area	Diesel	1.00	On the afternoon of 22 January 2007, at approximately 3:30 pm, BP Grader 59-310 was near the work rail at the Fleet Shop awaiting repair. The grader was idling. Fleet Shop personnel were told that there was a knocking sound coming from the engine. While idling, the grader threw a rod, which went through the engine block, allowing oil to spill onto the starter. This cause an electrical short, which resulted in a fire. An Fleet Shop mechanic noticed the fire, and reported it to the Fleet Shop Foreman, who called the emergency hotline. The EOA Fire Department was notified and responded, and extinguished the fire.	A loader with a scratcher and bucket was used to recover the contaminated snow and ice. A bobcat and trimmer was used to recover the contaminated gravel.	Contaminated snow and icewas taken to T pad for storage and future class 1 disposal. The contaminated gravel was taken to Pad 3 for storage and future remediation.	
7/31/07	2007-IR-2364212	Well Pad F, F-42 well head tree grease fitting, GC1	Diesel	1.00	Leak discovered by hard line rig-up crew. Called well pad operator. Well pad operator called x5700 and notified grease crew to repair leak.	Shovels and sorbent materials were used to clean affected gravel and wipe down the Well head.	The gravel was taken to an SRT accumulation bin at Santa Fe pad and will be taken to Pad 3. The sorbents were taken to an oily waste dumpster.	
8/10/01	2001-IR-108737	Well Pad S, S-200 Doyon 14 Rig	Seawater	1.00	While displacing well to seawater, one gallon splashed out of possum belly onto floor of mud pit are, seeping out of seam on floor and onto S-200 well head and 5' surrounding area.	The material that dripped on S-200 well tree was wiped down by hand. All of the contaminated gravel has been cleaned up with hand tools.	All of the contaminated gravel taken to Pad-3 for disposal. All of the contaminated rags have been placed in an approved oily waste dumpster.	
5/25/03	2003-IR-519510	CWTF/ CSTF, S Pad access road	Hydraulic Fluid	1.00	Small leak of power steering fluid from wastwater truck on S Pad.	The truck was wiped down with absorbent pads. The contaminated gravel was shoveled into oily waste bags.	The absorbent pads will be taken to an approved NSB oily waste dumpster. The contaminated gravel will be taken to Pad-3 disposal facility.	
3/26/02	2002-IR-191825	GC-3 PWX Section, Utilidor between Skid 484 and Skid 515	MEG	1.00	A leak was discovered on the MEG circulation piping for a unit heater between Skid 484 and Skid 515. The failure of the seal in a 1/2" dialelectric union was the cause of the leak. The circulation system was shut down and isolated for repairs. The MEG dripped from the module floor to the snow and contaminated a 2x3 area of snow. The snow was shoveled up and bagged for disposal.	The contaminated snow was shoveled into oily waste bags. The absorbent pads were placed in oily waste bags for disposal in an approved oily waste dumpster.	The absorbent will be disposed of in an approved oily waste dumpster. Snow and gravel will be taken to Pad 3 for disposal.	
5/14/03	2003-IR-510393	Well Pad D	Methanol	1.00	The Pump Truck had a short hose on there by-pass line (for bleed back, around the check-valve) rupture, spilling approximately 1 gallon of Methanol.	The methanol contaminated snow was shovel into oily waste bags for transport to storage facility.	All recovered material has been taken to L-Pad on the EOA, placed in a melt tank and is awaiting recycle.	
11/11/06	2006-IR-2049363	Drill Site 01, DS 1 well 20 swab cap O-ring leaked, FS1/SIP/STP	Crude Oil	1.00	DS-1 well 20 the swab cap O-ring developed a leak.	The well head was wiped down with rags and chem-clear. The contaminated gravel was recovered using a super sucker.	Contaminated rags were disposed as oily waste and the contaminated gravel was taken to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/28/02	2002-IR-378551	Well Pad W, W-37	Methanol	1.00	On 11/28/02 at approximately 10:00am a rig up crew was in the process of rigging up hardline in support of Nordic 2 when one of the crewmembers needed some methanol in his small dispensing bottle. The methanol is used to remove ice and snow from the threads on the hardline fittings prior to make-up. The crewmember went to the truck where the bulk methanol container is stored in a 5 gallon Nalgene® bottle with a ¼ turn valve for dispensing. The crewmember filled his small dispensing bottle, and placed the bulk container back into the compartment on the crew truck with the valve facing down. After the rig up was complete, the lead man went back to the truck and noticed that some fluid was leaking from one of the compartments. Upon investigating he found that the valve on the bulk methanol container was leaking and approximately ¾ of a gallon had leak out into the compartment and then on to the ice and snow covered gravel pad. SRT, rig personnel and other required notifications were made. SRT was already on the well pad for other concerns and the contaminated ice and snow was cleaned up. At no time was the released fluid in danger of reaching the tundra, and there were no injuries associated with this incident.	Free standing liquid was soaked up with absorbent pads.All of the contaminated snow and gravel was removed from the pad with hand tools and a front end loader.	All of the contaminated gravel, snow and absorbent pads will be shipped off-site as hazardous waste.	
5/29/02	2002-IR-232628	Well Pad F, GPB F-4	Fresh Water	1.00	Coil Unit #5 was rigging up on well F-04 for a fishing job. The current step of the rig up process was to intall and pressure test a Weatherford moter head assembly. The coil connector had been installed and pull tested, successfully. The motor head was then in the process of being pressure tested on the back deck of the coil unit, utilizing 50/50 methonal/water. As is normal practice, the motor head was retracted or pulled up into the coiled lubicator and the back deck was cleared for all personal before starting the pressure test. The normal test pressure is 4000 psi. At a pressure of approximately 3500 psi the rupture disk sub failed premuterly. The rupture disk should not have failed until 5300 psi. This resulted in a release on the back deck of the coiled unit. Some of the splashed material reached the ground.	Sorbent material was used to soak up liquids on the deck of the coil unit. Shovels were used to remove the material from the gravel pad.	All the gravel and sorbents were given to the BPX's Haz Waste coordinator for proper disposal.	
5/29/02	2002-IR-232628	Well Pad F, GPB F-4	Methanol	1.00	Coil Unit #5 was rigging up on well F-04 for a fishing job. The current step of the rig up process was to intall and pressure test a Weatherford moter head assembly. The coil connector had been installed and pull tested, successfully. The motor head was then in the process of being pressure tested on the back deck of the coil unit, utilizing 50/50 methonal/water. As is normal practice, the motor head was retracted or pulled up into the coiled lubicator and the back deck was cleared for all personal before starting the pressure test. The normal test pressure is 4000 psi. At a pressure of approximately 3500 psi the rupture disk sub failed premuterly. The rupture disk should not have failed until 5300 psi. This resulted in a release on the back deck of the coiled unit. Some of the splashed material reached the ground.	Sorbent material was used to soak up liquids on the deck of the coil unit. Shovels were used to remove the material from the gravel pad.	All the gravel and sorbents were given to the BPX's Haz Waste coordinator for proper disposal.	
3/24/06	2006-IR-1777668	Drill Site 18, DS 18-30, FS1/SIP/STP	Diesel	1.00	While Rigging up CTU #8 discovered a leak from fuel line on diesel heater. The small leak was discovered by the CTU crew and immediately reported.	Hand tools were used to recover the contaminated snow and put in oily waste bags.	Contaminated snow was melted down in drums and sent to Flow 1 for hydrocarbon recycle.	
4/23/03	2003-IR-491578	Drill Site 01, DS1 Well # 19	Methanol	1.00	While pressure testing the hard-line for a CTU FCO job on well 1-29, the weep hole of a 2" chiksen that was inline just before the manifold started blowing methanol when it was pressured up to 1000 psi. The operator immediately shut down the triplex and relieved the pressure. Although there was containment under all connections, about a 50' by 30' area of the ground was misted with neat methanol. SRT was called out and determined that a gallon of methanol had been released	Contaminated snow was shoveled up and placed in drums.	Material was shoveled up and placed in drums for beneficial reuse in freeze protect.	
12/9/04	2004-IR-1160824	C Pad, approximately 60 yards north of the C-Pad Chemical office, Non Process Area	Methanol	1.00	At approximately 7:00 am during the morning walk around inspection of the facility the Chemical Coordinator discovered a methanol spill, approximately 1 gallon, in the tractor parking area. The source is unknown. During the work day on 12-8-04 there were approximately 15 tractor/trailers parked in this area and the spill went unnoticed. Environmental conditons, clear cold and dark. SRT was notified and the affected area cleaned.	Contaminated snow was recovered with hand tools and placed into a drum for beneficial reuse.	Contaminated snow will be melted down and beneficially reused as freeze protection.	
4/24/07	2007-IR-2242925	GC-2 Oil Section, GC2 pad under skid 30	Crude Oil	1.00	While doing routine rounds operator discovered a small leak of fluids to the gravel pad under the skid that had accumulated in the deluge system P-trap.	Hand tools were used to recover the contaminated snow and ice and placed in oily waste bags for disposal.	Contaminated snow and ice will be taken to T-pad for storage and class 1 disposal.	
4/24/07	2007-IR-2242925	GC-2 Oil Section, GC2 pad under skid 30	Fresh Water	1.00	While doing routine rounds operator discovered a small leak of fluids to the gravel pad under the skid that had accumulated in the deluge system P-trap.	Hand tools were used to recover the contaminated snow and ice and placed in oily waste bags for disposal.	Contaminated snow and ice will be taken to T-pad for storage and class 1 disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/5/02	2002-IR-281874	Drill Site 05, DS #5, well #8.	MEG	1.00	On 8/4/2002 at approximately 23:10 a radiator hose on a Vac truck failed releasing glycol to the gravel pad of Drill Site 5 near well #20. Time line of events as follows. 22:30-8/3/02; Vac truck 82009 was delivered to drill site 5 with a load of Flo-pro for a coil job. The truck was staged, engine shut down and a spill dike placed under the engine per normal procedure. 22:30-8/3/02-22:00-8/4/02; At some point during this time frame a crewmember started the Vac truck and re-staged it to a different location to off-load the Flo-pro. Some of the Flo-pro was off loaded and the tractor was again shut down with the spill dike placed under the engine. 22:40-8/4/02 (apporx); More Flo-pro was needed to be off-loaded from the Vac truck but it was found that the air system had bled down and closed the air actuated ESD on the off-loading connection. Again the tractor engine was started. The tractor was idled up to 1400 rpm (standard idling speed) air pressure was established and the ESD was opened. It was decided to leave the truck running so as to maintain air pressure as additional Flo-pro would be needed. 23:10-8/4/02; The crew had finished off-loading additional Flo-pro and one of the crewmembers was going to drive to the edge of the pad for a break. As he passed the front of the Vac truck he noticed fluid around the tractor area of the unit. He stopped, backed up and informed the other crewmembers. The fluid was determined to be glycol, and the tractor was immediately shut down. A large portion of the glycol was contained in the spill dike with some of the glycol reaching the gravel pad. The crew placed sorbent pads on the spilled fluid and immediate notifications were made to the proper departments. As well as the Coil company man. 06:00-8/5/02; SRT arrived on scene to determine the volume of the material that reached the gravel pad, and to clean the area and dispose of the contaminated gravel. The volume released to the gravel pad was determined to be 1gallon. At no time was there any danger of the released material reaching the tundra. There were no injuries associated with this incident.	Recovered material with absorbents and Bobcat loader. Gravel placed into dump box for disposal at T-pad.	5 cubic yards of material taken to T-pad. Absorbents placed into oily waste.	
10/22/06	2006-IR-2025381	L-4, L-4 edge of Pad, GPMA	Diesel	1.00	After lunch while employee was doing his 360 walk around he noticed a mist coming from the engine area on steam plant (Hotsy #90-608). Employee shut the unit down and called his supervisor. The supervisor made the proper notifications and called SRT. The mobile steamer was taken to the VMS shop where a failed fuel hose was replaced.	Contaminated gravel was recovered using a loader with a bucket and scratcher.	Contaminated gravel was taken to Pad-3 for storage and future remediation.	
3/7/06	2006-IR-1750145	GC-2, Q-Pad Lake Staging Area, GC2/SAT	Sewage	1.00	A frozen line on the envirovac staged on the Q-Pad Lake Spill Clean Up Staging Area for the GC2 transit line release caused approximately 1-gallon of sewage to be released onto the lake ice.	Contaminated snow and ice was scraped of lake staging area and sucked up with the sewage truck.	Material was placed in sewage truck and taken to sewage treatment plant.	
2/16/03	2003-IR-437476	Drill Site 14, DS #14 pad	Diesel	1.00	A portable generator borrowed from FS-2 was full of snow when we rec'd it so a Tioga heater hose was put inside the generator trailer to warm it up and dry it out. The diesel in the fuel tank of the generator expanded and leaked from the fuel fill nozzle outside the trailer on to the pad.	Recovered material with hand tools.	Liquids will be recycled and solids will be taken to Pad 3 for disposal.	
10/27/01	2001-IR-128331	L-5, DS# L-5/ Well #21	Crude Oil	1.00	Wireline unit was rigging up on well. While spotting slop trailer they discovered that the flange on the back side of the well house was leaking.	Recovered material with hand tools and loader and placed into dump box for disposal at G&I.	3 cu. yrds. of lightly contaminated material taken to G&I for disposal.	
6/21/06	2006-IR-1875764	Flow Station 2, FS-2 Access Road, FS2/COTU	Hydraulic Fluid	1.00	Fuel truck driver took attention away from the road, resulting in a vehicle roll over and material release.	Area was boomed off. Free standing fluids were absorbed and sucked up with a Vac-truck. Pond was drained. Residual contaminates were burned off the tundra grass with weed burners.	Fluids were sent to pad 3 for disposal. Sorbents went to oily waste.	
11/23/04	2004-IR-1138192	Pad 10, Pad 10 Loading Module, Non Process Area	Methanol	1.00	At 08:00 the chemical Technician entered the module at the main methanol storage tank to begin to conduct daily morning walk through. The technician found approximately 1 gallon of methanol on the floor. The source of the chemical was a small leak from the packing around the valve stem. The technician checked and tightened the packing, which eliminated the drip. SRT and supervisor were immediately contacted. All material was recovered and collected by SRT.	Methanol was picked up with absorbent pads.	Absorbents used for cleanup will be disposed as Hazardous waste.	
3/5/07	2007-IR-2178377	GC-1 Pad, GC1	Transmission Fluid	1.00	Truck number 14-697L developed a transmission leak and spilled transmission fluid onto the GC-1 pad from outside skid 71 to skid 1T. Spill hotline was called.	The contaminated snow and transmission fluid was removed from the gravel surface using a surface scratching attachment and bucket on a front end loader.	The contaminated material will be taken to Pad 3 for disposal.	
10/15/03	2003-IR-649812	Drill Site L1, On gravel pad next to well L1-15A	Seawater	1.00	After backing the Nordic 2 rig off the well, a viscous fluid (believed to be 2% KCl with 2ppb biozan) was noticed on the pad between the wellhead and the rig mat next to the wellhead. The rig mat was removed and additional fluid was discovered underneath the mat. The exact timing of the leak is not known due to the fact that the fluid leaked below the secondary containment in the cellar. The leak was not visible until the secondary containment in the cellar was removed.	Viscous fluid was shoveled up and bagged.	Contaminated material will be taken to Pad-3 for disposal	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/24/02	2002-IR-157723	Niakuk Pad, On Niakuk Pad in front of Doyon 14 rig camp.	Motor Oil	1.00	A pick up was parked in front of camp during the lunch hour and left idling. When the employee came out the pick up was found not running. It had leaked approx 4 quarts oil out from the engine. One quart oil was caught in the drip tray; the remainder of the oil had splashed / blown on the ground out of the tray. The oil immediately froze when it hit the ground	Called and informed Spill Tech. Permission given to clean up area. All area was removed with shovel and bagged. As area and oil was frozen 100% clean up was achieved.	Contaminated material was brought to pad 3 for disposal.	
5/7/07	2007-IR-2269949	Drill Site 04, Spine road, from Hot water plant to DS 4 entrance., FS2/COTU	Motor Oil	1.00	Used Lube Oil Release from unknown mobile source	Grader, and dump box were used to remove contaminated snow from road surface.	Contaminated material was brought to T pad for disposal.	
1/29/02	2002-IR-159730	G&I Facility, DS-4 G&I Materials Pit	Hydraulic Fluid	1.00	At DS-4 G&I Materials Pit a Maxi haul was dumping when a hydraulic ram seal failed and about 1 gallon of hydraulic oil was released.	Hydraulic oil was recovered with absorbents, absorbents bagged and removed for final disposal.	Contaminated absorbents removed to oily waste dumpster.	
10/3/01	2001-IR-122040	PBU Equipment Fleet Shop, Fleet shop ready rail	Diesel	1.00	A heater was staged at the PBU fleet shop and was being prepared to be delivered to a field location. While doing his walk around of the equipment prior to leaving the delivery man noticed a fuel leak coming from the fuel tank. He immediately placed containment and notified the shop supervisor.	Bobcat and dump box and loader were used to scrape up and remove contaminated gravel.	Contaminated gravel was brought to pad 3 for disposel.	
8/21/02	2002-IR-294382	Flow Station 3, Flow 3 pad	Diesel	1.00	An indirect fired heater had a fuel pump gasket failure while in service spilling 1 gallon of diesel onto the gravel before it was discovered. The equipment had a spill dike placed under it but the leak was pressurized and sprayed outside the spill dike onto the gravel pad.	Recovered material with loader and placed into dump box for disposal.	4 cubic yards of material taken to T-pad for disposal.	
9/6/01	2001-IR-115277	Drill Site 17, DS # 17 back side of manifold building	Hydraulic Fluid	1.00	Hydraulic line failed on 58-307 motor grader causing a 1 gallon spill. SRT notified and cleaned up.	Bobcat and dump box were used to remove contaminted gravel.	Contaminated gravel was brought to pad 3 for disposal.	
10/15/05	2005-IR-1580476	Niakuk, Niakuk 19, GPMA	Hydraulic Fluid	1.00	Pump crew was rigging up to tree cap. Employee lost grip on crossover that was being rigged up. Crossover fell from tree cap to ground level coming into contact with right edge of the control panel and sheared the control line at the connection to the accumulator.	The contaminated gravel was recovered with hand tools and placed into oily waste bags for disposal. The tree and walls were wiped down with rags.	Contaminated gravel was taken to Pad 3 for disposal.	
5/9/05	2005-IR-1360455	Drill Site 13, DS-13 well 29, FS3	Hydraulic Fluid	1.00	13-29 SSV- SSV DUMPED DUE TO BAD O RING.	Hand tools were used to recover the contaminated gravel in the well cellar.	Contaminated gravel was taken to Pad-3 for disposal.	
12/13/03	2003-IR-711801	Fleet Shop, Gravel Area behind PBOC Fleet Shop	Hydraulic Fluid	1.00	A hydraulic hose on Loader #52-236 failed which resulted in the loss of hydraulic fluid to the ground. The event occurred behind the PBOC Fleet Shop.	5700 and SRT Notified. Dirty Snow shoveled and removed to SRT Dump Box.	Contaminated material will go to T pad for disposal.	
2/8/02	2002-IR-165159	Warm Storage, Heavy equipment warm storage pad	Hydraulic Fluid	1.00	While lowering the dump box, on truck #30-206, hydraulic fluid came out of the filter on top of tank. Approximately 1 gallon spilled onto frozen gravel pad outside the heavy equipment warm storage area. Operator did not leave the hydraulic pump engaged until the task was complete.	Recovered material with loader and placed into dump box for disposal.	1 cu. yrd. of material taken to Pad #3 for disposal.	
3/16/02	2002-IR-184907	Well Pad, Roads, Sag Delta 2-A drill site at the wellhead location.	Hydraulic Fluid	1.00	Trimmer attachment on the front of a cat-966 accidentally released when the balderson hitch toggle switch was contacted by a dropped radio microphone in the operator cab. Trimmer unit moved forward but was restrained by the hydraulic hoses. Pressure on the hoses broke a fitting on the trimmer attachment. Hydrauic fluid was released contacting the ground beneath the working unit. A two foot by four foot area of exempt gravel that was being removed from the drill pad for remediation was contaminated. Spill response was immediate and all materials were taken up and properly bagged for turn over to Alaska Clean Seas for disposal at Pad-3.	Hand tools were used to shovel all of the contaminated gravel. Sorbent pads were used to wipe down and clean all machine surfaces that were contacted with the fluid. All contaminated materials were properly sealed in oily waste bags.	1 cu. yrd. of material taken to Pad 3 for disposal.	
2/6/02	2002-IR-164831	Drill Site 15, DS #15, Well #4	Crude Oil	1.00	Operator discovered small leak from grease zerk fitting on well tree valve. Valve was serviced and leak stopped.	Recovered material with hand tools and placed into oily waste bags for disposal.	1 cu. yrd. of material taken to Pad 3 for disposal.	
4/11/02	2002-IR-201365	C Pad, In front of CWC hazmat room overhead door.	Hydraulic Fluid	1.00	Employee was operating a Michigan L120 loader with snow pushing blade. Left balderson ram seal failed while in normal operation. Employee did not detect any deficiencies durring daily equipment inspection.	Material was recovered with a loader and placed into dump box for disposal.	2 cu. yrds of material taken to pad 3 for disposal.	
10/26/02	2002-IR-348556	Drill Site 03, DS3 well #8 13 3/8 manifold leaked into cellar of well house	Diesel	1.00	DS3 well #8 13 3/8 (OA) both 1/2" valves leaked by and JIC cap leaked by cauing spill in well house cellar. Est. 1 gal.	Recovered material with hand tools and place into container for disposal.	1 cubic yard of material taken to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/21/04	2004-IR-983438	Drill Site 15, DS15-40, FS3	Crude Oil	1.00	Flange leak on DS15-40 AL line vented to atmosphere.	Contaminated gravel was recovered with a bobcat and dump box.	Contaminated gravel was sent to Pad-3 for disposal.	
7/24/02	2002-IR-274646	Drill Site 07, Drill site 7 well #25	Crude Oil	1.00	After removing gravel from cellar of 7-25 for remediation, oil started seeping into the cellar from the NE corner of the well house. It was determined the oil was trapped in the floor of the well house from a previous spill or leak. We were unable to find any report of a leak in the well house. SRT was called and cleaned up the spill and removed contaminated gravel.	Recovered material with Super Sucker and hand tools.	1 cubic yard of material taken to G&I for disposal.	
12/25/01	2001-IR-147751	Well Pad W, W-Pad, well #37 ground surface and mist to the tundra.	Crude Oil	1.00	A Schlumberger E-line Unit was rigged up at W-Pad, Well #37, to perform a leak detect log. The ambient temperature was -18 degree F. with the wind blowing from 15 - 20 mph from the Northeast. The well was freeze protected with methanol. The crew had pressure tested the well with diesel to 3000 psi. and verified fluid returns through the bleed hose to the slop trailer. The E-line crew had installed a new seal in their pack off and the bleed hose had been evacuated of all fluids the night prior to this job. The crew logged a baseline pass of the well and the wellhead pressure was 350 psi. The pack off grease pressure was brought up to 4000 psi. The pump unit began pumping crude oil down the inner annulus (IA) at a rate of 4 barrels per minute. The E-line operator verified the wellhead pressure to be 2200 psi. During the pumping operation the pump crew observed fluid being released from the pack off of the lubricator. They immediately notified the E-line crew and shutdown the operation. The Well Operations and Schlumberger Supervision were notified immediately of the incident and the Spill Response Team was dispatched to location. The spill volume was estimated to be approximately 1 gallon with less than 1 pint of the fluid reaching the snow covered tundra. An investigation into the incident revealed that the bleed hose, from the lubricator to the slop tank, had an ice plug that obstructed flow. This caused the fluid to back up in the hose and be release as a mist from the lubricator pack off.	Clean up was done using brooms to sweep the top of the snow on the tundra and a loader was used to clean affected snow covered pad.	The material was taken to Pad 3 disposal facility.	
11/20/01	2001-IR-136296	Drill Site 15, INSIDE WELLHOUSE 15-4	Crude Oil	1.00	WHILE DRILLSITE OPERATOR WAS PERFORMING ROUTINE WELLHOUSE INSPECTIONS A LEAK WAS DISCOVERED IN WELLHOUSE 15-4. SOURCE OF LEAK WAS THE GREASE FITTING ON THE FMC MODEL WING VALVE.	Recovered product with hand tools and placed into oily waste bags for disposal at G&I.	1 cu. yrd of material taken to Pad 3 for disposal.	
12/17/06	2006-IR-2090974	Pigging Workshop, Behind (North) CP/W1 Pigging shop, Non Process Area	Hydraulic Fluid	1.00	Hydruilc fluid line broke on Engine-6 while on a drill	Heavy equipment was used to clean up the contaminated material.	The contaminated material was taken to T-pad.	
12/14/03	2003-IR-713001	PM-2, Pt Mac 2, under module 4923	Sewage	1.00	Drillsite operator found a valve body had leaked and froze on the wastewater evacuation line.	Area was chipped up and recovered with hand tools	Material will be taken to T-pad for disposal.	
10/28/04	2004-IR-1106112	Drill Site 02, DS2 pad and tundra, FS1/SIP/STP	Lube Oil	1.00	During braided line job, grease used for pressure control escaped from grease head on the braided line and was blown by wind,creating spots on gravel pad. A residual amount landed on snow on tundra.	SRT recover grease spots on pad with loader, and shoveled snow on tundra, recovered all grease.	All material was disposed of at G&I facility	
10/8/06	2006-IR-2009789	Drill Site 11, DS 11 pad, FS2/COTU	Hydraulic Fluid	1.00	DS operator made pad check found old hyd. panel had been blowned over and the hyd. reservoir spilled on to ground.	Hand tool's were used to remove contaminated material.	Ssonw will be brought to T pad for disposal.	
12/23/06	2006-IR-2097292	Well Pad F, Well 5, F-Pad, GC1	Corrosion Inhibitor	1.00	Employees were attempting to shut-in the corrosion inhibitor system at F-Pad to prevent further spills associated with the Sko-flow leaks that were being experienced. Another spill was observed in Well House F-05 that was consistent with todays earlier spill.	Contaminated gravel was shoveled into an oily waste bag for disposal transportation.	Contaminated gravel will be taken to Pad-3.	
4/26/04	2004-IR-880054	PM-2, P2-57 inside well house, GPMA	Hydraulic Fluid	1.00	The actuator piston seals for the P2-57 SSV failed. This allowed hydraulic fluid to enter the actuator barrel and vent to atmosphere from the barrel vent. The vent is a brass 90 degree elbow equiped with a trash screen that is threaded into the actuator barrel. The actuator is an 'old style' Axelson.	Containmentaed snow and gravel cleaned up and bagged with hand tools.	Material was brought to Pad 3 for disposal.	
2/19/04	2004-IR-810508	Drill Site 06, DS 6 in front of well house # 22, FS3	Hydraulic Fluid	1.00	On 2/19/04 at approximately 16:40 one gallon of compressor oil was released to the ground surface on Drill Site 6 in the vicinity of well # 22. The crew had just finished greasing the O/A on well 22 and were spooling up their lines. When they went back out to the lube van they noticed the spill under the truck. All appropriate notifications were made and SRT responded to clean up the contaminated material. The lube van was taken in to the shop to determine cause, and to repair the unit. At no time was the released material in danger of reaching the tundra.	Loader and dump box were used to remove contaiminated material.	Material was brought to T pad for disposal.	
5/23/05	2005-IR-1382053	Niakuk, Niakuk # 65, GPMA	Hydraulic Fluid	1.00	18-619 knuckle boom truck hydraulica filter leaked gravel pad while hanging a wellhead platform	Bobcat and dump box were used to remove contaminated material.	Material was brought to Pad 3 for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/16/05	2005-IR-1246719	Access Road, 200 yards east of Caribou Crossing on pipeline access road, Non Process Area	Transmission Fluid	1.00	Driver headed toward Caribou Crossing from CCP drove pickup truck onto gravel access road heavily drifted with snow and became stuck. Driver attempted to free truck from the snow by shifting truck from forward to reverse several times. Driver then began to shovel snow from under truck and discovered transmission fluid in snow under truck. Driver freed truck from snow and backed away about 30 feet. Transmission fluid leak concentrated at position where truck was stuck in snow berm and trailed back 30 feet to where truck backed away. Driver then waited for SRT and tow truck. Following response, SRT estimated one gallon of transmission fluid spilled.	Hand tools were used to remove contaminated snow.	Material was brought to T Pad for disposal.	
6/13/06	2006-IR-1869918	U-09 (Fabrication Shop), (Outside) West-end of the U-9 fabrication shop , Non Process Area	Hydraulic Fluid	1.00	Outside of U-9 fabrication shop on the West end, a 966 loader # 40118 was moving piping for the Z-pad Trunk and Lateral job. The Loader had just dropped material inside the over-head door of the fab shop, on return back to the yard a hose blew from inside the controls. The leak seemed to be coming from the pump but not for sure? The Loader operator shut the loader down to stop the pressurized line from blowing hydraulic oil onto the equipment and ground. The Loader operator contacted his General Foreman and General Superintendent. The Safety department was also contacted to investigate and report the spill. The hydraulic oil sprayed over a small area of gravel, containments were placed to catch any residual drips from the equipment. Estimated volume is 1 gallon of hydraulic oil lost from the hose failure. SRT responded to the spill and cleaned up the hydraulic oil.	Hand tool's were used to remove contaminated material..	Material was brought toPad 3 for disposal.	
3/29/03	2003-IR-471643	Drill Site 12, Drill site 12	Hydraulic Fluid	1.00	A BP loader had a leak from a hydraulic fitting. The location was DS-12. Equipment was shut down and SRT was immediately notified. Contaminated snow was bagged and given to SRT for final disposal.	Loader and hand tools were used to remove material.	Material was brought to T pad for diposal.	
3/8/04	2004-IR-828141	Flow Station 1, Crude loading dock at Flow Station 1, FS1/SIP/STP	Methanol	1.00	Overflowed tanker while loading at Flow Station 1	Contaminated snow was recovered with hand tools and placed into oily waste bags. Then placed into drums for disposal.	Material was disposed as hazardous waste.	
7/19/03	2003-IR-571744	Flow Station 3, FS3 gravel pad near Mod 4970	Lube Oil	1.00	During an inspection of the outside area around Mod 4970, the Area Operator observed discolored gravel under two separate insulated floor drain Victaulic pipe coupling joint locations. The approximate size of each location was 18 in. x 8 ft. The leak had apparently been spread by the wind. The Area Operator notified ext 5700. An Enviromental Team representative estimated the oil leak to be 1 gal. mixed with glycol. He removed the discolored gravel. The insulation was removed to determine the cause of the leak and complete required repairs.	Environmental Team removed discolored gravel with Bobcat and hand tools.	Material was brought to G&I for disposal.	
11/23/06	2006-IR-2060741	Niakuk Well Pad, Niakuk #23, GPMA	Diesel	1.00	When bleeding off diesel from lubricator, crew failed to insure complete evacuation of fluids before unstabbing resulting in a one gallon diesel spill.	Hand tool;s were used to remove contaminated material.	Material was brought to G&I for disposal.	
3/29/03	2003-IR-471534	Drill Site 16, DS 16 Well 18	Crude Oil	1.00	Employees were removing flowline from Well 18 on Drillsite 16 in preparation for Rig 2ES to move onto the well for work. Well was swept with gas remove any fluids from the line. The low point drain was checked and revealed no fluids. After the line was disonnected both ends were checked for fluids and none were present. The ends were then packed with absorbent and double bagged with oily waste bags to prevent any drips/leaks. As the line was backed out and placed on the pad, the S-riser end was slightly elevated and fluid began to collect in the lateral end of the line. The lateral end of the line was in a containment dike and a half drum. Employee's immediately raised the S-riser end to prevent any more fluids from draining into the bag on the lateral end. A leak developed in the bag when some ice chunks came out of the line causing the bag to tear. One gallon of crude was released to the pad, the remainder was contained in the half drum. Employee's notified dispatch immediately. SRT was notified.	Loader and Dump box were used to remove material.	Material was brought to G&I for disposal.	
6/12/04	2004-IR-935746	Drill Site 18, DS-18 Well 02, FS1/SIP/STP	Crude Oil	1.00	Operator backed into position to load truck, then stepped into front doghouse and opened all drains to accumulator and oil savers. He then proceeded into the cab of the unit to fill out the Seta card and Unified Fluid Transfer Check List. He then returned to the dog house looked to make certain all fluids were drained, closed all valves to oil savers and accumulator, started the pony motor and checked to see if unit was in the vac mode. He then stepped out to check side vent and saw fluid discharge out of the vent. He immediately shut the unit down and informed Dispatch. SRT responded to the scene, and estimated the amount at 1 Gal. SRT will clean up the tainted gravel with a Bobcat and truck then transport to G&I for disposal.	Cleaned up material with a Bobcat and dumpbox.	Material was brought to G&I for disposal.	
3/17/03	2003-IR-461436	Drill Site 07, Drillsite 7 well 28 wellhouse	Crude Oil	1.00	While operator was depressuring well 7-29 fluid packed inner annuli to adjacent well line 7-28 through a high pressure hose, the stainless steel Swagloc fitting on the adjacent well line block valve began to leak. This action had been performed earlier in the day without incident.1 gallon of crude oil spilled	Material was pick up with hand tools and put in a dump box for disposal.	Material was taken to G & I for disposal	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/23/03	2003-IR-575005	Fleet Shop, Fleet shop gravel pad/parking area	Lube Oil	1.00	The Differential plug fell out on Water Wagon # 34-005 causeing approx 1 gallon of 75/90 Gear oil to leak onto the ground at the Fleet Shop.	Contaminated gravel was recovered with hand tools and placed into oily waste bags for disposal.	Material taken to Pad 3 for disposal.	
3/13/03	2003-IR-458070	Drill Site Maintenance, Drill site maintenance yard	Motor Oil	1.00	At approximately 07:50 an employee driving by the back of the Wells Support shop noticed some oil under VECO crew truck # 10419. He reported this to a Wells Support Foreman, and upon investigating it was determined that the rear main seal, or the oil pan gasket had failed releasing some engine oil to the frozen snow covered pad. The incident was reported and all required notifications were made. SRT cleaned up the contaminated snow and determine the amount of the release to be 1 gallon of engine oil. The truck will be towed in to the VECO shop at Deadhorse for repairs.	Recovered material with hand tools and placed into containers for disposal at T-pad.	Material taken to T-pad for disposal.	
7/1/05	2005-IR-1437420	Flow Station 3, FS3 SE corner outside 4906B @truck fill connection., FS3	Corrosion Inhibitor	1.00	Chemical drip area was noticed below fill line of Emulsion Breaker and Anti-foam truck connections. Appear to be leaking from unions downstream of fill camlock.	Used supersucker truck to pick up contaminated material.	Gravel was taken to Pad 3, West Pit.	
3/27/03	2003-IR-470437	Drill Site 09, Snow covered gravel pad in fronto of DS 9-42	Methanol/ Water (50/50)	1.00	Schlumberger Coil Tubing unit #5 was rigging up on DS 9-42 to perform a sand plug job. The Schlumberger hardline was rigged up and tightened. When the lines were flooded a leak occured at a chicksen swivel connection, the pump was shut down and connection was tightened. It was estimated that 1 gallon of 60/40 methanol had sprayed passed containment onto a 4X10 foot area of snow covered gravel pad. Effected area was shoveled up and placed into oilywaste bags for SRT to pick up. Crew member that hammered up the hardline missed the one connection, which was loose and caused the leak to occur.	Crew shoveled up effected snow into oily waste bags.	EOA SRT to melt down for reuse.	
7/20/04	2004-IR-983080	Spine Road, Spine road in front of warm storage facility, Non Process Area	Hydraulic Fluid	1.00	Broom # 96-017 experienced a hydraulic hose failure and leaked approx. 1 gallon of hydraulic oil onto the spine road in front of warm storage facility. SRT notified.	Weeed burners were used to burn off the oil on the chip sealed road with approval from ADEC.	Material was burned onsite.	
6/10/07	2007-IR-2297462	South Hangar, Wells Support Dock, Non Process Area	Hydraulic Fluid	1.00	On 060707 at approximately 1500 hours, a VECO employee noticed a spot of an unknown substance on the ground in the Wells Support yard near the storage dock. The spot was reported to the appropriate contacts. S.R.T. responded and advised that they would be back later to clean up the spot and determine what the substance was. S.R.T. returned on 060907 for the clean up and disposal. They advised that the substance was hydraulic fluid and the quantity was 1gal. The source of the spill was from a pallet of actuators that was stored on the dock.	Bobcat and dumpbox were used to remove contaminated gravel.	Material Pad 3 for disposal.	
3/25/04	2004-IR-846992	Well Pad B, B-Pad Access Road., GC3	Hydraulic Fluid	1.00	Employees traveling on the B-Pad access road noticed an unknown material that appeared to have been spilled on the B-Pad Access Road. It was determined to be hydraulic oil by the ACS Spill Technicians. The exact source of the spill was researched and undetermined.	All of the contaminated snow and hydraulic oil was removed from the road with a loader and scratcher. The snow was placed in a dump truck for disposal transportation.	T-Pad Storage Pit	
7/8/05	2005-IR-1448852	C Pad, C-Pad yard surplus vehicle storage, Non Process Area	Diesel	1.00	Loader operator discovered a discolored area on the pad where we store surplus equipment. SRT responded and determined that the spill was diesel fuel and the amount was approx. 1 gallon. SRT team cleaned up the area.	SRT clean-up with bob cat and dump box. Material sent to pad 3 west pit.	Pad 3 west pit	
11/12/07	2007-IR-2464761	Drill Site 05, DS5-40, FS1/SIP/STP	Methanol	1.00	Coil crew was performing a milling job DS5-40, and was pressuring up to 2500 making an attempt to free the coil. Supervisor saw a pressure drop and advised the crew to check for leaks. Personnel noticed fluid running down the tree, and the leak was found to be coming from an O-ring on the lubricator section above the BOP. The pressure was immediately bled down. QHSE, SRT and SLB Cell Leader were notified.	SRT responded and advised SLB they would return the following morning to perform cleanup.		
6/19/02	2002-IR-425937	Drill Site 13, DS13	Calcium Carbonate	1.00	Bag of "No sulf" discovered leaking (dry product) on edge of pad. Source unknown. Discovered by Pad operator.	Cleaned up with shovels		
8/6/06	2006-IR-1934264	Access Road, S-Pad access road., Non Process Area	Propylene Glycol	1.00	While employee was watering S-pad access road he noticed steam coming from the radiator cap on the water wagon (34-002). Employee stopped and shut the truck down and investigated the problem. He noticed coolant leaking on the gravel road way and immediately used his spill kit to control the leak. Employee notified his supervisor. Supervisor notified AES safety and called x5700. AES cleaned up the area and properly disposed of waste per SRT¿s instructions. Veco (VMS shop) was notified and immediately repaired hose on site.			

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/6/07	2007-IR-2252367	Drill Site 06, Pad D.S 06-03, FS3	Sewage	1.00	Sewage Tank on Change out Trailer Overflowed, +- 1 gal of sewage leaked out of utility room onto pad D.S. 06-03. Event Called into Spill Line at 5700 at 22:40. SRT to Respond for Clean up of Raw Sewage.			
5/30/93	1993-IR-88763	Well Pad C	Crude Oil	1.00	Employees had cut a section of 6" pipe from the flow line on C-Pad, Well house C-37. They then set the pipe on the ground and placed sorbent inside and plastic around the ends of the openings. The outside (ambient) temperature rose during the next couple of days and thawed the fluid inside the pipe. As the liquid traveled, it broke through the plastic spilling on the ground, (about one gallon of crude oil).		Bags of used sorbents were placed in oily sorbent dumpster for disposal by the NS Borough.	Personnel were replacing sections of pipe. In the section of pipe that was removed, sorbents were placed inside the pipe and plastic was taped around the pipe to seal off the cut ends. However, the amount of oil inside was more than could be contained
2/5/00	2000-IR-100616	Point MacIntyre	Methanol	1.00	"Drillsite Operator was disconnecting a methanol trailer from a tri-plex pump. After he had the 2"" hose disconnected and the camlock cap on the hose he leaned the hose up against the methanol trailer and went to get some wire from his pickup to secure	The contaminated snow was immediately shoveled up and put into the methanol trailer by the Wells group. The SRT technicians came out and inspected the spill site to ensure the spill was completely cleaned up.	The snow and methanol was placed into the methanol trailer for re-use.	"Drillsite Operator was disconnecting a methanol trailer from a tri-plex pump. After he had the 2"" hose disconnected and the camlock cap on the hose he leaned the hose up against the methanol trailer and went to get some wire from his pickup to secure
10/27/95	1995-IR-98539	Drill Site 05	Crude Oil	1.00	Crude was discharged from an upright recovery tank while circulating material from well. Gas intrusion into tank while recovering liquids caused material to release out of tank vent onto pad. A light mist of crude carried over to the tundra.	"A loader, bucket and handshovels were used to remove the contaminated gravel. Brooms were used to remove the misted snow from the affected tundra area. - The contaminated snow was taken to the Pad 3 E. Snowmelt Pit on 10/28/95 to be held for future in		Crude was discharged from an upright recovery tank while circulating material from well. Gas intrusion into tank while recovering liquids caused material to release out of tank vent onto pad. A light mist of crude carried over to the tundra.
4/3/95	1995-IR-100639	Point MacIntyre	Seawater	1.00	"The cause has been attributed to a line failure at or near a weld on the 18""""" line. Wind- induced oscillation stress may have contributed, although weld flaws cannot be ruled out. (See Pt Mac Spill File for complete description.)"	Standing fluids composed primarily of seawater with some snowmelt were removed from a natural depression in the area near the spill source on 4/3/95. (See Pt Mac Spill File for complete description.) - All fluids were taken to Pad 3 WIF.		"The cause has been attributed to a line failure at or near a weld on the 18""""" line. Wind- induced oscillation stress may have contributed, although weld flaws cannot be ruled out. (See Pt Mac Spill File for complete description.)"
1/12/93	1993-IR-87233	Well Pad G	Crude Oil	1.00	A packoff failure on pressure control head in the quick coupler connectoin caused crude oil to by-pass a stripper head and carry up the wire to the top. The wind blew the oil out onto the pad and the reserve pit adjacent to the area. Loader and Marooka will be used to scrape up contaminated snow and ice. Contaminated snow and ice will be taken to T Pad.		Contaminated snow and ice will be taken to T Pad.	A packoff failure on pressure control head in the quick coupler connection caused crude oil to bypass the stripper head and carry up the wire to the top. The wind blew the oil out onto the pad and the reserve pit adjacent to the area.
9/19/95	1995-IR-91509	Well Pad F	Crude Oil	1.00	While a well was being tested on F Pad, the rupture disc blew on the test separator allowing gas to vent to the relief pit. A small amount of crude was carried out of the vent line and into an unlined relief pit with a tundra base. The affected gravel was removed, and the affected tundra vegetation is expected to recover naturally. The area will be monitored int he spring for sheening.		Exempt clean-up material was placed into an accumulation bin on Santa Fe pad for disposal at Pad 3.	While a well was being tested on F Pad, the rupture disc blew on the test separator, allowing gas to vent to the relief pit. A small amount of crude was carried out the vent line and into an unlined relief pit with a tundra base.
4/27/97	1997-IR-89234	Well Pad S	Crude Oil	1.00	All header drains were flushed on 4/27/97 in preparation for a pad shut down scheduled for 5/7/97. During a skid walk through on 4/28/97 the pad operator heard the PSV's lift on the slop oil vessel causing a spill out side of skid 57 of three gallons. Upon investigation the pad operator found header 46 block valves were leaking into the drain system..One block valve and a flow control valve were leaking from header 46 and the flow control valve to the slop oil vessel also leaked lifting the PSV's causing this spill. The pad operator was able to open the header 46 drain line flow control valve, flush it out and close the valve. This action stopped the leak. He then pumped down the slop oil tank and called environmental to clean up the spill.		The exempt snow and gravel were placed in a dump truck and transported to T pad pit for disposal.	During depressuring operations in Skid 57 on S Pad, a 2" throttle valve did not seat properly allowing approximately one gallon of crude and two gallons of produced water to vent to the atmosphere and spray onto the pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/9/94	1994-IR-86563	CWTF/ CSTF	Diesel	1.00	While loading diesel fuel into Peak Vac Truck # K63 Trailer T116, the operator noticed fuel leaking from the front valve which is normally closed. Valve was left partially open when the truck was serviced the day before. The contaminated snow was shoveled into a bag and taken to Arco Pad 3.		All contaminates taken to Arco Pad 3.	While loading diesel fuel into Peak Vac Truck #K63 Trailer T166, the operator noticed fuel leaking from the front valve which is normally closed. Valve was left partially open when the truck was serviced the day before.
9/2/94	1994-IR-86427	GC-1 Oil Section	Crude Oil	1.00	The operator had a bleed hose hooked up to the bottom of skid 4A line to "C" slugcatcher for a bleed. The hose plugged and the pressure blew out the o-rings on the connection in skid 4A. Pressure blew out the hose plug and pressure splashed about one gallon of oil on the gravel from the bleed tank. Operator blocked in the hose in skid 4A. Found a bleed point on top of the line from skid 4A and hooked bleed hose back up and started bleed.		The contaminated gravel was taken to Pad 3 for disposal.	While venting a line from 4A to the C-bank slug catcher a vent hose plugged, built pressure, & then released. This allowed gas/crude to vent into the bleed tank, blowing crude mist out of the bleed tank onto the Pad.
4/20/98	1998-IR-90595	Well Pad W	Crude Oil	1.00	Pigging crew was in the process of bleeding the pressure (to 0 psi) from the pig launcher on W-Pad when the tie wire that was used to secure the bleed hose in the top of the bleed trailer broke and allowed the hose to spray fluids on the pad. This incident resulted in approximately 1.5 gallons of crude spilled onto the pad. The environmental department was notified and the spill was cleaned up.	Material removed from on top of snow by hand tools.	Contaminated snow taken to T Pad pit for storage until thaw and disposal as non-hazardous waste or reuse for enhanced oil recovery (EOA).	While bleeding down a line during pigging operations. The hose in the bleed tank came loose from the restraint breaking and caused the hose to come out of this bleed tank discharging 1 gallon of crude and water.
5/11/00	2000-IR-100609	Niakuk	Diesel	1.00	"During flow back of well NK34 to 500 barrel open top tiger tank, diesel mist carried out the top of tank. Demister that covers the hatch on top of tank was not in place allowing the mist ot carry out of tank."	Drillsite operators picked up what they could the SRT responded and removed product with loader and hand tools and put in dump box for transportation and disposal to Pad 3		"During flow back of well NK34 to 500 barrel open top tiger tank, diesel mist carried out the top of tank. Demister that covers the hatch on top of tank was not in place allowing the mist ot carry out of tank."
11/27/94	1994-IR-98419	PBOC	Diesel	1.00	"Fuel nozzle was not switched off when placed back into holder on fuel truck. When pump was engaged, fuel discharged from nozzle into lined containment. One gallon spilled out of the liner onto the pad."	Handshovels were used to remove the contaminated snow. Absorbs were used to soak up excess fluid. - The contaminated snow was placed into designated dumpster at Fuel Dock and will be melted and reused in wellwork activities. The absorbs were disposed		"Fuel nozzle was not switched off when placed back into holder on fuel truck. When pump was engaged, fuel discharged from nozzle into lined containment. One gallon spilled out of the liner onto the pad."
6/24/93	1993-IR-86725	Contractor Pad Warehouses	Diesel	1.00	During snow removal, the operator scraped up some contaminated snow into a pile. VMS was then called to push the snow off the pad. Unknown to them, the pile had trace amounts of hydrocarbons in the snow. VMS used their Challenter to push suspected snow and gravel back onto the pad. The fluid was non-hazardous and taken to Pad 3.		The fluid was non-hazardous and taken to Pad 3.	During snow removal, operator scraped up some contaminated snow into a pile. VMS was then called to push snow off pad. Unknown to them, the pile had trace amounts of hydrocarbons in the snow.
11/4/96	1996-IR-98306	Drill Site 05	Crude Oil	1.00	Drillsite Operator was depressuring the well annulus to a slop oil trailer. The pressure from the annulus bleeding operation sprayed the liquids from the slop oil trailer to the pad.	A bobcat was used to scrape up contaminated snow and ice. - Contaminated snow/ice was taken to Pad 3 East Pit on 11/4/96 to be held for future injection.		Drillsite Operator was depressuring the well annulus to a slop oil trailer. The pressure from the annulus bleeding operation sprayed the liquids from the slop oil trailer to the pad.
5/28/96	1996-IR-100642		Lube Oil	1.00	Water truck slid off the road into a small water body (20' X 20') when a stationary truck slipped out of gear. Lube oil washed from the engine block into the water causing a sheen.	The effected area was boomed to prevent additional dispersion of sheen. The sheen was removed with absorbs. - Absorbs were disposed of at NSB on 5/29/96.		Water truck slid off the road into a small water body (20' X 20') when a stationary truck slipped out of gear. Lube oil washed from the engine block into the water causing a sheen.
7/21/97	1997-IR-100845	Lisburne Production Center	Crude Oil	1.00	"Lost control valve internals, which sent 24 bbls of foamy crude to flare. Crude combusted during event with 1 quart reaching the liquid flare pit, causing a sheen on the water."	Used pitch forks and absorbants to clean up contaminated water and gravel from flare pit. - Contaminated gravel was taken to Pad 3 West Temp Pit on 7/27/97 for future remediation.		"Lost control valve internals, which sent 24 bbls of foamy crude to flare. Crude combusted during event with 1 quart reaching the liquid flare pit, causing a sheen on the water."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/4/96	1996-IR-89662	Well Pad C	MEG	1.00	EQUIPMENT SERVICES WAS DOING ROUTINE SNOW REMOVAL ON C PAD WITH A BLADE AND A BLOWER. THE BLADE WAS JUST ABOUT TO THE END OF HIS PASS WHEN THE BLOWER HAND TOLD HIM HE WAS LEAKING OIL. HE STOPPED THE BLADE AND THE ENGINE QUIT. AFTER AN INSPECTION FROM A MECHANIC HE FOUND A CRACK IN THE OIL COOLER ON THE ENGINE BLOCK.		The contaminated snow was hauled to pad 3 for disposal.	A catastrophic engine failure on a grader occurred while plowing snow. The engine block cracked which allowed engine lube oil to discharge to the surface of C Pad.
5/29/94	1994-IR-88693	Well Pad A	Corrosion Inhibitor	1.00	A gasket on a filter of the gas lift chemical injection pump at A-Pad well #12 was found to be leaking. A mixture of diesel and corrosion inhibitor leaked into the housing of the chemical injection pump. When the injection pump was purchased, it was believed that the housing around the pump would serve as a containment area in the event of a leak. Several days prior to the leak, the Chemical Operator had removed the filter to clean it out. After the filter was cleaned out, it was put back in place and the fitting was tightened. There were no visible leaks at this time. The chemical injection pump had resently been drained and was being flushed with diesel in order to begin using a new corrosion inhibitor. There had been approximately 150 gallons of diesel run through the pump prior to the leak so the mixture of corrosion inhibitor in the diesel was minute. This incident resulted in approximately 2 pints of fluids being spilled on the pad.		The sorbents were sent to NS Borough incinerator. The snow & ice will be melted and taken to ARCO Pad 3.	A gasket on a filter fitting on the injection pump on well A-12 leaked causing approximately 1 gal of corrosion inhibitor and diesel mixture to spill onto the ground.
10/19/99	1999-IR-98338	Drill Site 04	Crude Oil	1.00	Operator flowed annulus bleed fluid into a full slop trailer tank. Operator should have checked the tank center hatch instead of relying on the tank sight glass.	SRT used loader and scraped up spill materials and manifested to DS 4 G&I.		Operator flowed annulus bleed fluid into a full slop trailer tank. Operator should have checked the tank center hatch instead of relying on the tank sight glass.
8/24/94	1994-IR-86474	BOC	Seawater	1.00	During a fill clean out operation using nitrogen and seawater to lift out fill, seawater spilled out of flowback tank.		The bags of gravel were taken to Arco Pad 3.	During a fill cleanout operation using Nitrogen and seawater, the flowback tank overflowed causing approximately 1 gallon of seawater to spill onto the pad.
5/10/94	1994-IR-100619	Point MacIntyre	Crude Oil	1.00	"During a tie-in operation, a flange that was thought to be closed worked open and crude leaked through the valve. See file in Room 113 for more details."	" Super suckers, vac trucks, a bobcat, and a steamer unit were used to recover crude and clean piping. Full SRT and IMT involvement was utilized. See PM Spill folder for more details. - Fluids were transferred to Pad 3. (See PM Spill folder for more		"During a tie-in operation, a flange that was thought to be closed worked open and crude leaked through the valve. See file in Room 113 for more details."
1/23/00	2000-IR-100612	Point MacIntyre	Crude Oil	1.00	Loader operator struck drum that was covered with sno resulting in crude being released. Non reportable due to less than 1 gal crude on pad.	SRT recovered product with shovels and placed into bags. Product taken to Pad 3 for disposal.		Loader operator struck drum that was covered with sno resulting in crude being released. Non reportable due to less than 1 gal crude on pad.
1/28/94	1994-IR-88319	Well Pad, Roads	Crude Oil	1.00	Environmental spotted small leak at VSM saddle during helicopter pipeline survey. Line was shutdown and depressured. Inspection discovered severe external corrosion at LDF weld insulation pack saddle. Sleeve repairs in progress. Frozen oil on ground of approximately 1 to 3 gallons cleaned up.		The contaminated snow was taken to Arco Pad 3.	External corrosion caused by wet insulation. The Environmental Technician spotted the spill during routine helicopter pipeline inspections.
1/19/93	1993-IR-87293	Well Pad F	Diesel	1.00	While backing a Tioga heater up to the well house, it jack-knifed, knocking loose the fuel fitting allowing diesel to fall onto the pad. All contaminants were picked up with sorbents and scraped up with shovels and a bucket loader. All contaminants were taken to the A3W2 melt tank.		All contaminated were taken to the A3/W2 melt tank.	While backing a Tioga heater up to the well house, it jack-knifed, knocking loose the fuel fitting, allowing diesel to fall onto the pad.
6/25/96	1996-IR-98284	Drill Site 17	Crude Oil	1.00	"During testing, a small amount of crude was blown out of test separator onto gravel berm and produced a sheen on water in relief pit."	Sorbent products were used to remove sheen from impoundment and hand tools were used to remove gravel. - Contaminated gravel was taken to Pad 3 West Pit on 6/25/96 for future remediation.		"During testing, a small amount of crude was blown out of test separator onto gravel berm and produced a sheen on water in relief pit."
12/20/93	1993-IR-88422	Well Pad N	Crude Oil	1.00	The P.E. Support Operators were bleeding off the inner annulus pressure on N-20 into a bleed tank. The bleed hose was plumbed into the bleed tank fitting; however, the hatch on top of the bleed tank was not completely closed. The inner annulus gas pressure was 1800 psi and the bleed tank was approximately half full of fluids. As the inner annulus pressure was bled into the tank a fine mist of crude escaped from the hatch of the bleed tank. There was approximately 1 gallon of fluid on the ground covering a 20' x 30' area.		The contaminated material was taken to Arco Pad 3 for disposal.	During bleed down of annulus, gas was vented into the bleed tank. The lid to the bleed tank was left open causing crude to spray out.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/2/93	1993-IR-89857	BOC Pad	Crude Oil	1.00	Crude oil residue from inside some drill pipe stacked on the Tool Service Pipe Rack leaked out of the ends of the pipe onto the ground.		Materials were taken to the A3W2 snow melter.	Crude oil residue from inside some drill pipe stacked on the Tool Service Pipe Rack leaked out of the ends of the pipe onto the ground.
2/28/95	1995-IR-87063	Well Pad R	Lube Oil	1.00	A seal on the snow blowers impeller gear box failed. This allowed lube oil to leak into the snow as it was being blown off the Pad. A rubber track dozer (Challenger) was used to lightly skim the surface snow and remove the contamination. It was then loaded into an End Dump for disposal at T Pad.		This material was taken to WOA T Pad.	A seal on the snow blowers impeller gear box failed. This allowed lube oil to leak into the snow as it was being blown off of the Pad.
11/18/98	1998-IR-90122	Well Pad S	Drilling Mud	1.00	A Nordic employee was transferring drilling mud from a Peak vac truck while simultaneously mixing Flo Pro in the Nordic unit mud pit. The employee failed to close the valve between the mixing line and the mud pit suction pump. This allowed fluids to be circulated back to the Peak vac truck. The Peak driver noticed that the volume in the tank was not dropping. While inspecting the area to determine why the level was not dropping, his tank overfilled. The rear containment at the vac truck overfilled and approximately 1 gallon of drilling mud was spilled on the snow covered pad. The crews isolated the piping from the vac truck and cleaned up the spilled material.		Material was put into the rig slop tank and will be taken to pad 3	A Valve was opened causing a backflow of product into a vac truck causing a leak and forcing approx. one gallon out on the gravel pad
3/23/94	1994-IR-98466	Drill Site 17	Crude Oil	1.00	"A needle valve on a well head tree cap was left open, causing a light mist of crude to spray out onto the pad and tundra area."	A loader with bucket were used to scrape up the contaminated material. Cleanup is 100% complete. - The material was taken to Pad 3 Snowmelter pit on 3/24/94 and 3/29/94 to be held for future injection in the WIF.		"A needle valve on a well head tree cap was left open, causing a light mist of crude to spray out onto the pad and tundra area."
3/20/00	2000-IR-100674	Lisburne Production Center	Crude Oil	1.00	High level switch on LP flare knock out drum failed. Level climbed to a high high switch and diverted liquid to pit.	"3/20/00 - Due to safety concerns with the stability of the frozen ice to reach the spill area, clean up options are being review. A boom will be placed around the spill to prevent material from spreading.""6/15/2000 - The snow and ice in the flare pit	82.5 cu. yds were disposed of at G&I and 6984 BBls of flare pit water was disposed of at Pad 3.	High level switch on LP flare knock out drum failed. Level climbed to a high high switch and diverted liquid to pit.
3/16/99	1999-IR-98837	PBOC	Fresh Water	1.00	"Leak emitted from 13 3/8"" Csg. valve flange that contained no ring gasket. Activity during spill: Wireline Work"	3/16 - 1.5 gals of liquids were cleaned up with vac truck & manifested to Pad-3 (exempt).3/17 - 0.5 cu. yd. of contaminated gravel was cleaned up by SRT and taken to the DS 16 pit for future grinding & injection at the G & I facility.		"Leak emitted from 13 3/8"" Csg. valve flange that contained no ring gasket. Activity during spill: Wireline Work"
3/16/99	1999-IR-98837	PBOC	Methanol	1.00	"Leak emitted from 13 3/8"" Csg. valve flange that contained no ring gasket. Activity during spill: Wireline Work"	3/16 - 1.5 gals of liquids were cleaned up with vac truck & manifested to Pad-3 (exempt).3/17 - 0.5 cu. yd. of contaminated gravel was cleaned up by SRT and taken to the DS 16 pit for future grinding & injection at the G & I facility.		"Leak emitted from 13 3/8"" Csg. valve flange that contained no ring gasket. Activity during spill: Wireline Work"
6/6/92	1992-IR-88145	WSW	Crude Oil	1.00	During a seawater loading operation the truck was overloaded. This caused seawater to spill out of the overfill line on the truck.		All contaminated gravel was taken to Arco Pad 3. All water and fluids taken to GC1 Dirty Water Ttank. All sorbents were put into yellow bags and deposited into the NSB incinerator dumpster.	While filling a 90 BBL truck with seawater, the truck overflowed. Operator indicates the sight gauge read 60 bbls.
9/23/94	1994-IR-100622		MEG	1.00	Antifreeze leaked from the radiator of an air compressor and was sprayed onto the pad by the unit's cooling fan.	Shovel was used to pick up the contaminated gravel. - Contaminated gravel was bagged and taken to Pad 3 West Pit on 9/24/94 to hold for future remediation.		Antifreeze leaked from the radiator of an air compressor and was sprayed onto the pad by the unit's cooling fan.
5/27/00	2000-IR-98358	Drill Site 18	Seawater	1.00	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).	The spill response team was called out. Sorbents were used on the freestanding liquids. A loader was used to clean up the pad and accessible areas of the pit. Shovels and brooms were used to cleanup misted areas the loader could not reach.	The material was disposed of at the pad 3 east snow pit.	No single point of contact to orchestrate the change of control over the wellhead (procedure not followed).

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/25/95	1995-IR-100633	Lisburne Production Center	Produced Water	1.00	"Rubber gasket in camlock hose washed out, allowing produced water to spray onto snow-covered gravel pad."	Shovels were used to pick up contaminated snow. - Contaminated snow was melted and re-used for mixing freeze protection fluids.		"Rubber gasket in camlock hose washed out, allowing produced water to spray onto snow-covered gravel pad."
5/22/92	1992-IR-97356	MCC Fuel Dock	Diesel	1.00	Fuel nozzle had tripped open when replaced on nozzle rack & material released when pump turned on again.	Metis/Cleanup		Fuel nozzle had tripped open when replaced on nozzle rack & material released when pump turned on again.
4/11/97	1997-IR-98671	Central Gas Facility	Lube Oil	1.00	Pressure buildup in 1801 Compressor vented lube oil mist to atmosphere. Suspect clogged air filters.	Use Bobcat and Loader to remove contaminated snow. - Contaminated snow was taken to Pad 3 East Pit on 4/11/97 to be held for future melting and injection.		Pressure buildup in 1801 Compressor vented lube oil mist to atmosphere. Suspect clogged air filters.
4/26/93	1993-IR-97905	Drill Site 14	Produced Water	1.00	Opened vent valve before the pig receiver was depressuried allowing material to spray out vent line.	Metis/Cleanup		Opened vent valve before the pig receiver was depressuried allowing material to spray out vent line.
7/22/92	1992-IR-97755	Drill Site 09	MEG	1.00	Material escaped out of an uncapped vent line on the antifreeze tank while it was being blown down.	Metis/Cleanup		Material escaped out of an uncapped vent line on the antifreeze tank while it was being blown down.
5/21/93	1993-IR-88805	GC-1 Pad	Diesel	1.00	80 ton link belt crane. Fuel tank over flowed due expansion of fuel.		Contaminated gravel was taken to A3/W2 tank for rinsing and flushing.	While fueling an 80-ton crane, the fueler overfilled the tank causing diesel to spill onto the pad.
6/4/94	1994-IR-98204	Communications Module	Crude Oil	1.00	Dumpster emptied by NSB was returned with dirty liner. Oil contained inside leaked out onto pad.	Bobcat was used to scratch and chip material off gravel. Contaminated gravel was loaded into an end dump for removal from the site. - Contaminated gravel was taken to Pad 3 West Temporary Pit on 6/4/94 to be held for future remediation.		Dumpster emptied by NSB was returned with dirty liner. Oil contained inside leaked out onto pad.
10/13/93	1993-IR-98060	C Pad	Corrosion Inhibitor	1.00	"While filling bulk storage tank, material was allowed to overflow due to faulty site gauge."	Absorbents and handshovels were used to remove the contaminated material. Clean-up is considered to be 100% complete. - Contaminated gravel was taken to Pad 3 SWDP and the absorbents were taken to NSB incinerator on 10/14/93.		"While filling bulk storage tank, material was allowed to overflow due to faulty site gauge."
3/14/95	1995-IR-98580	Drill Site 07	MEG	1.00	Exact cause and source are unknown. Spilled material discovered on snow- covered gravel pad.	A loader and bucket were used to remove the contaminated snow. - The contaminated snow was taken to the Pad 3 East Pit on 3/14/95 to be held for future melting and injection.		Exact cause and source are unknown. Spilled material discovered on snow-covered gravel pad.
8/30/92	1992-IR-97774	Drill Site 12	Crude Oil	1.00	Bleeding down well line to sump tank which was too full causing it to overflow out vent line.	Metis/Cleanup		Bleeding down well line to sump tank which was too full causing it to overflow out vent line.
5/14/93	1993-IR-97923	Spine Road	Diesel	1.00	"Gas cap on truck was not replaced after fueling, material splashed out during road travel."	Metis/Cleanup		"Gas cap on truck was not replaced after fueling, material splashed out during road travel."
2/4/95	1995-IR-98553	Main Construction Camp (MCC)	MEG	1.00	Spilled material was observed on snow- covered gravel pad. Exact cause and source unknown.	A pick and handshovels were used to remove the contaminated snow. - The contaminated snow was disposed of at Pad 3 East pit on 2/4/95 to be held for future melting and injection.		Spilled material was observed on snow-covered gravel pad. Exact cause and source unknown.
10/19/92	1992-IR-97812	Drill Site 12	Crude Oil	1.00	"While pumping out sump, material blew out of pressure control valve due to gas pressure."	Metis/Cleanup		"While pumping out sump, material blew out of pressure control valve due to gas pressure."
12/7/93	1993-IR-98081	Drill Site 03	Produced Water	1.00	Needle valve and hose froze allowing excess pressure to release material onto the pad.	Snow scoops were used to remove the contaminated material. - The contaminated snow was placed into a slop trailer for recycle at Flow Station 1.		Needle valve and hose froze allowing excess pressure to release material onto the pad.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/25/93	1993-IR-98019	Main Construction Camp (MCC)	MEG	1.00	Forklift hit heater line in building while unloading materials. 1 gal outside on pad.	Metis/Cleanup		Forklift hit heater line in building while unloading materials. 1 gal outside on pad.
4/2/93	1993-IR-89851	Drill Site 03	Lube Oil	1.00	Victraulic fitting had worn seals. Leak developed in hydraulic lifting cylinder seal.		Contaminated materials were taken to Arco Pad 3.	Victraulic fitting had worn seals. Leak developed in hydraulic lifting cylinder seal.
3/4/93	1993-IR-98130	Drill Site 13	Produced Water	1.00	Residue material leaked from the hose while it was being pulled from the tiger tank.	Metis/Cleanup		Residue material leaked from the hose while it was being pulled from the tiger tank.
11/29/92	1992-IR-86637	Well Pad C	Methanol	1.00	Fluid found leaking through grating on well house roof after clean-out procedure. Material was soaked up with sorbents and scraped up with 966 loader and shovels. Used sorbents and contaminated snow and ice were placed in the end dump truck for removal from the site.		Sorbents were taken to north Slope dumpster. Contaminated snow and ice taken to A3W2 snow melter.	Fluid found leaking through grating on well house roof after clean-out procedure.
9/6/93	1993-IR-86694	GC-1 Pad	Lube Oil	1.00	The oil cooler split on 86-701 air compressor allowing contaminants to hit the pad. All contaminants were picked up with sorbents and shovels. All sorbents were placed in the oily sorbent dumpster for disposal at NSB. The oil cooler was repaired.		All sorbents placed in oily sorbent dumpster for disposal at NSB.	Oil cooler split on 86-701 air compressor, allowing contaminants to hit the pad.
10/27/96	1996-IR-98303	Seawater Injection Plant	Seawater	1.00	"Unknown, but suspect residual seawater left in truck loading hose leaked out."	Chipped with chipping bar and shoveled into bag. - Disposed of frozen seawater at Pad 3 East Pit on 10/28/96.		"Unknown, but suspect residual seawater left in truck loading hose leaked out."
4/23/92	1992-IR-97694	MCC Fuel Dock	Diesel	1.00	Small drips that have accumulated around the fuel island from fueling vehicles.	Metis/Cleanup		Small drips that have accumulated around the fuel island from fueling vehicles.
1/15/94	1994-IR-98200	COTU Facility	Diesel	1.00	Fuel loading nozzle blown out of position by strong winds while loading fuel.	Metis/Cleanup		Fuel loading nozzle blown out of position by strong winds while loading fuel.
8/15/92	1992-IR-97757	Drill Site 16	Diesel	1.00	Vent line on fuel tank was plugged causing it to over pressure and spill out.	Metis/Cleanup		Vent line on fuel tank was plugged causing it to over pressure and spill out.
7/31/92	1992-IR-97370	Flow Station 2	Crude Oil	1.00	A leak in the module caused oil to leak thru the soffit and out onto the pad.	Metis/Cleanup		A leak in the module caused oil to leak thru the soffit and out onto the pad.
7/17/96	1996-IR-98294	Central Gas Facility	Lube Oil	1.00	Material released from an oily waste dumpster due to a torn dumpster liner.	Handshovels were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 7/19/96 to be held for future remediation.		Material released from an oily waste dumpster due to a torn dumpster liner.
3/15/92	1992-IR-100907		Crude Oil	1.00	Operator opened the wrong valve and the material sprayed into a lined pit.	YES -		Operator opened the wrong valve and the material sprayed into a lined pit.
8/9/93	1993-IR-98012	Well Pad, Roads	Diesel	1.00	Fuel pump on generator failed while at staging area during SRT exercise.	Handshovels were used to remove the contaminated material. Cleanup is 100% complete. - The contaminated material was taken to the Pad 3 West Temporary pit on 8/18/93 to be held for future remediation.		Fuel pump on generator failed while at staging area during SRT exercise.
1/31/93	1993-IR-98063	Drill Site 03	Crude Oil	1.00	"During flowback into flare tank, the material misted out from the pit."	Metis/Cleanup		"During flowback into flare tank, the material misted out from the pit."
5/23/95	1995-IR-100630	Lisburne Production Center	MEG	1.00	Hole in radiator caused antifreeze to leak out while truck was fueling.	Handshovels were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Temporary Pit on 5/26/95 to be held for future remediation.		Hole in radiator caused antifreeze to leak out while truck was fueling.
12/5/93	1993-IR-98075	Drill Site Maintenance	Methanol	1.00	Material was found on road in front of the DSM yard. Cause is unknown.	Handshovels were used to remove the contaminated gravel. - Material was taken to DSM on 12/6/93 to be washed and reused upon verification of sample analyses.		Material was found on road in front of the DSM yard. Cause is unknown.
5/7/92	1992-IR-97338	Drill Site 09	Crude Oil	1.00	Material blew out of open vent while checking obstruction in sump line.	Metis/Cleanup		Material blew out of open vent while checking obstruction in sump line.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/23/90	1990-IR-97260	Drill Site 12	Crude Oil	1.00	Spill discovered next ot slop oil tank. Apparent cause vent discharge.	YES -		Spill discovered next ot slop oil tank. Apparent cause vent discharge.
12/16/92	1992-IR-97857	Drill Site 03	Methanol	1.00	Spilled material discovered on snow outside wellhouse. Cause unknown.	Metis/Cleanup		Spilled material discovered on snow outside wellhouse. Cause unknown.
2/4/93	1993-IR-98092	Drill Site 05	Lube Oil	1.00	Material discharged from breather on truck engine that had frozen up.	Metis/Cleanup		Material discharged from breather on truck engine that had frozen up.
11/13/93	1993-IR-100901	Point MacIntyre	Diesel	1.00	Leaked from hose connection while bleeding annulus to slop oil tank.	Handshovels were used to pick up the contaminated snow and ice. Cleanup is 100% complete. - The contaminated snow and ice was melted and recycled on 11/14/93.		Leaked from hose connection while bleeding annulus to slop oil tank.
9/25/90	1990-IR-97113	Drill Site 09	Diesel	1.00	"Suction block valve vibrated open, diesel leak out while parked."	YES -		"Suction block valve vibrated open, diesel leak out while parked."
9/15/95	1995-IR-98528	Flow Station 2	Lube Oil	1.00	Portable air compressor was found dripping lube oil off belly pan.	Sorbents were used to pick up lube oil. Contaminated gravel was shoveled up and placed into oily waste bags. - Contaminated gravel was taken to Pad 3 West Pit on 9/19/95 to be held for future remediation. Sorbents were placed in NSB oily waste dumpst		Portable air compressor was found dripping lube oil off belly pan.
4/20/92	1992-IR-100814		Crude Oil	1.00	Coupon fitting developed leak due to corrosion around the threads.	Metis/Cleanup		Coupon fitting developed leak due to corrosion around the threads.
11/1/90	1990-IR-97160	Drill Site 05	Crude Oil	1.00	Slop oil trailer was connected to annulus of well when discovered.	YES -		Slop oil trailer was connected to annulus of well when discovered.
7/1/92	1992-IR-97718	Flow Station 1	Crude Oil	1.00	Rain water ran down fill line to tanker sump and overfilled sump.	Metis/Cleanup		Rain water ran down fill line to tanker sump and overfilled sump.
10/11/93	1993-IR-98059	Pad 10	Diesel	1.00	Released from hose that came out of tank while transferring fuel.	Metis/Cleanup		Released from hose that came out of tank while transferring fuel.
5/28/90	1990-IR-96999	Drill Site 17	Crude Oil	1.00	"During fill clean-out, a gas surge blew crude out of tank vent."	YES -		"During fill clean-out, a gas surge blew crude out of tank vent."
4/18/91	1991-IR-100771	Point MacIntyre	Crude Oil	1.00	Hose connection came loose when a valve was inadvertently closed.	YES -		Hose connection came loose when a valve was inadvertently closed.
2/8/94	1994-IR-100624		Crude Oil	1.00	"Leaked from failed gasket on flange of 14""" production line."	Handshovels were used to pick up the contaminated snow. Cleanup is 100% complete. - The contaminated was taken to Pad 3 WIF on 2/8/94.		"Leaked from failed gasket on flange of 14""" production line."
4/5/92	1992-IR-97885	Drill Site 15	Crude Oil	1.00	Material released from vent on a sump while depressurizing line.	YES -		Material released from vent on a sump while depressurizing line.
12/16/99	1999-IR-98833	Central Gas Facility	Methanol	1.00	"While transfering from truck to storage, seal on pump failed."	Shoveled up contaminated snow & used absorbent pads and rags to clear gravel of methanol.	Clean up material was placed in operator drum for reuse.	"While transfering from truck to storage, seal on pump failed."
10/5/92	1992-IR-97800	Drill Site 11	Diesel	1.00	Material released from loose connection while bleeding annulus.	Metis/Cleanup		Material released from loose connection while bleeding annulus.
8/3/91	1991-IR-97518	Drill Site 03	Diesel	1.00	Shifting of mobile tank caused residual material to splash out.	YES -		Shifting of mobile tank caused residual material to splash out.
7/16/92	1992-IR-97748		Crude Oil	1.00	Material from unbagged oil filters drained out of a dumpster.	Metis/Cleanup		Material from unbagged oil filters drained out of a dumpster.
6/17/90	1990-IR-96310	Drill Site 04	Diesel	1.00	Sediment bulb on small diesel engine failed due to vibration.	YES -		Sediment bulb on small diesel engine failed due to vibration.
1/22/94	1994-IR-98246	COTU Facility	Diesel	1.00	"Unknown, suspected cause is leak from diesel loading hose."	Used a backhoe and bucket to remove the contaminated material. - The contaminated snow was taken to the Pad 3 snowmelter for future injection at the WIF on 1/23/94.		"Unknown, suspected cause is leak from diesel loading hose."
6/15/93	1993-IR-97972	C Pad	Diesel	1.00	"Unknown spill, possible leak from vehicle in parking lot."	Metis/Cleanup		"Unknown spill, possible leak from vehicle in parking lot."
5/10/92	1992-IR-97344	Drill Site 09	Crude Oil	1.00	Source and cause unknow. Sighted on pad during spring thaw.	Metis/Cleanup		Source and cause unknow. Sighted on pad during spring thaw.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/31/91	1991-IR-97439	Drill Site 16	Diesel	1.00	A truck ran into a bucket of diesel used for cleaning parts.	YES -		A truck ran into a bucket of diesel used for cleaning parts.
8/7/99	1999-IR-98819	Drill Site 03	Crude Oil	1.00	Leaking internal valve caused sump to fill and vent to pad.	A Drillsite Maintenance Vac truck was used to pick up free standing fluids. A Peak supersucker was used to pick up contaminated gravel. Shovels were used to pick up what the other equipment could not reach.	The fluids were taken to pad 3 for disposal. The contaminated gravel was taken to the Grind & Inject facility for disposal.	Leaking internal valve caused sump to fill and vent to pad.
12/16/93	1993-IR-98088	Central Gas Facility	Lube Oil	1.00	Pressure gauge failed on circulating pump of diesel engine.	Handshovels and absorbents were used to remove the contaminated snow. The cleanup is 100% complete. - The contaminated snow was recycled by melting and circulating into stabilizers and NGL tank .		Pressure gauge failed on circulating pump of diesel engine.
4/11/92	1992-IR-97683	Drill Site 15	Methanol	1.00	"During wellwork, material leaked from hardline connector."	Metis/Cleanup		"During wellwork, material leaked from hardline connector."
6/10/93	1993-IR-100889	Lisburne Production Center	Crude Oil	1.00	"During shutdown, high level alarm on knockout drum failed"	Metis/Cleanup		"During shutdown, high level alarm on knockout drum failed"
1/11/93	1993-IR-100910	Lisburne Production Center	Crude Oil	1.00	Material spilled due to poor connection onto the vac truck.	Metis/Cleanup		Material spilled due to poor connection onto the vac truck.
1/21/90	1990-IR-97059	Checkpoint - Central	Crude Oil	1.00	Full tanker stopped at East Guard Shack and splashed crude.	YES -		Full tanker stopped at East Guard Shack and splashed crude.
5/18/92	1992-IR-97351	MCC Fuel Dock	Diesel	1.00	Material released from fuel nozzle during vehicle fueling.	Metis/Cleanup		Material released from fuel nozzle during vehicle fueling.
2/27/94	1994-IR-98442	Drill Site 01	Methanol	1.00	Faulty gasket seal on coiled tubing unit to the hardline.	Metis/Cleanup		Faulty gasket seal on coiled tubing unit to the hardline.
2/6/93	1993-IR-97410	J Pad	Methanol	1.00	"Material leaked from pump stored on pad, cause unknown."	Metis/Cleanup		"Material leaked from pump stored on pad, cause unknown."
2/11/93	1993-IR-98107	Drill Site 09	Crude Oil	1.00	Packoffs bypassed fluid in injector sump and leaked out.	Metis/Cleanup		Packoffs bypassed fluid in injector sump and leaked out.
8/30/90	1990-IR-97093	COTU Facility	Diesel	1.00	Nozzle didn't trip off and overflowed tank and drip-pan.	YES -		Nozzle didn't trip off and overflowed tank and drip-pan.
9/28/92	1992-IR-97798	Main Construction Camp (MCC)	Lube Oil	1.00	Material leaked from an unknown vehicle in parking lot.	Metis/Cleanup		Material leaked from an unknown vehicle in parking lot.
8/4/91	1991-IR-97521	Drill Site 04	Diesel	1.00	Sprayed out of vent while bleeding wireline lubricator.	YES -		Sprayed out of vent while bleeding wireline lubricator.
5/8/91	1991-IR-97288	Drill Site 06	Crude Oil	1.00	A loader bumped and tipped over a 55 gal drum of crude.	YES -		A loader bumped and tipped over a 55 gal drum of crude.
10/11/92	1992-IR-97807	C Pad	Fresh Water	1.00	Material leaked from radiator hose of unknown vehicle.	Metis/Cleanup		Material leaked from radiator hose of unknown vehicle.
9/26/92	1992-IR-97795	Flow Station 3	Methanol	1.00	Material dripped from hose while hose being connected.	Metis/Cleanup		Material dripped from hose while hose being connected.
1/20/92	1992-IR-97750	COTU Facility	Diesel	1.00	Fuel leaked from a failed valve on the fuel dispenser.	YES -		Fuel leaked from a failed valve on the fuel dispenser.
9/26/91	1991-IR-97571	Drill Site 06	Crude Oil	1.00	Leak from a hole in the rubber fitting on the camlock.	YES -		Leak from a hole in the rubber fitting on the camlock.
2/26/90	1990-IR-97231	Drill Site 17	MEG	1.00	Engine overheated and material boiled out of radiator.	YES -		Engine overheated and material boiled out of radiator.
10/26/93	1993-IR-97385	Spine Road	Diesel	1.00	Drive shaft on mail van broke and ruptured fuel tank.	Handshovels were used to remove the contaminated snow. Cleanup is 100% complete. - Material was recycled in the Drill Site Maintenance freeze protectant tank 0n 11/4/93 for future use.		Drive shaft on mail van broke and ruptured fuel tank.
4/28/90	1990-IR-100880		MEG	1.00	Leaked from the radiator of a crane while moving rig.	YES -		Leaked from the radiator of a crane while moving rig.
4/14/92	1992-IR-97684	Drill Site 13	Methanol	1.00	Material leaked from valve during wellwork activity.	Metis/Cleanup		Material leaked from valve during wellwork activity.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/16/92	1992-IR-97349	Drill Site 04	Crude Oil	1.00	Valve left open while bleeding pressure off a well.	Metis/Cleanup		Valve left open while bleeding pressure off a well.
4/12/90	1990-IR-100879	Drill Site 02	Lube Oil	1.00	"Unknown, suspect due to leak in hose on truck."	YES -		"Unknown, suspect due to leak in hose on truck."
12/1/92	1992-IR-97841	Drill Site 03	Diesel	1.00	High winds caused injector sump to drip diesel.	Metis/Cleanup		High winds caused injector sump to drip diesel.
5/7/92	1992-IR-97339	Sag River	MEG	1.00	Material vented from overheated air compressor.	Metis/Cleanup		Material vented from overheated air compressor.
6/2/93	1993-IR-97960	Drill Site 18	Crude Oil	1.00	Leak from hardline joint on raw gas lift line.	Metis/Cleanup		Leak from hardline joint on raw gas lift line.
5/8/90	1990-IR-100881	Lisburne Production Center	Crude Oil	1.00	Sprayed from vent due to blockage in scrubber.	YES -		Sprayed from vent due to blockage in scrubber.
9/9/92	1992-IR-97780	Drill Site 09	Seawater	1.00	Valve left opened while bleeding down well.	Metis/Cleanup		Valve left opened while bleeding down well.
6/30/93	1993-IR-97992	J Pad	Crude Oil	1.00	Leaked from stored pipe due to warmer temp.	Metis/Cleanup		Leaked from stored pipe due to warmer temp.
9/2/95	1995-IR-98526	Seawater Injection Plant	Seawater	1.00	O-ring on the door of pig launcher failed.	Handshovels were used to remove the contaminated gravel. - The contaminated gravel was taken to Pad 3 West Pit on 9/3/95 to be held for future remediation.		O-ring on the door of pig launcher failed.
6/9/91	1991-IR-97449	Drill Site 03	Diesel	1.00	Overflowed tank due to high well pressure.	YES -		Overflowed tank due to high well pressure.
8/25/91	1991-IR-97321	Drill Site 04	Crude Oil	1.00	Slop oil tank over- flowed from vent tube.	YES -		Slop oil tank over- flowed from vent tube.
7/10/90	1990-IR-97039	Drill Site 14	Crude Oil	1.00	Sprayed from vent caused by blocked valve.	YES -		Sprayed from vent caused by blocked valve.
7/13/92	1992-IR-97747	Drill Site 15	Crude Oil	1.00	A check valve in a grease fitting failed.	Metis/Cleanup		A check valve in a grease fitting failed.
12/6/91	1991-IR-97601	Drill Site 04	Seawater	1.00	Excessive vibration caused valve to open.	YES -		Excessive vibration caused valve to open.
12/14/92	1992-IR-97852	MCC Fuel Dock	Diesel	1.00	Overfilled tank during vehicle fueling.	Metis/Cleanup		Overfilled tank during vehicle fueling.
2/12/93	1993-IR-98108	Drill Site 05	Crude Oil	1.00	Carryover from bleeding gas into tank.	Metis/Cleanup		Carryover from bleeding gas into tank.
1/19/93	1993-IR-98001	Drill Site 09	Diesel	1.00	Fuel line on genreator engine cracked.	Metis/Cleanup		Fuel line on genreator engine cracked.
12/19/92	1992-IR-97860	Spine Road	Diesel	1.00	Camlock cap failure on diesel trailer.	Metis/Cleanup		Camlock cap failure on diesel trailer.
1/3/91	1991-IR-97276	Drill Site 11	Lube Oil	1.00	Hydraulic pump hose developed a hole.	YES -		Hydraulic pump hose developed a hole.
12/17/92	1992-IR-97859	Drill Site 18	Crude Oil	1.00	Material leaked from hardline joint.	Metis/Cleanup		Material leaked from hardline joint.
1/21/92	1992-IR-97368	Flow Station 1	Lube Oil	1.00	Drain tank on pump truck overfilled.	YES -		Drain tank on pump truck overfilled.
4/29/93	1993-IR-100843	Point MacIntyre	Diesel	1.00	Heater leaked material from engine.	Metis/Cleanup		Heater leaked material from engine.
12/10/90	1990-IR-100753		Crude Oil	1.00	Cause is still under investigation.	YES -		Cause is still under investigation.
12/2/97	1997-IR-98705	Drill Site 14	Diesel	1.00	Left valve open on triplex pump.	Used shovels to put contaminated snow into oily waste bags. - Placed bag of contaminated snow in MCC Steel Box on 12/4/97.		Left valve open on triplex pump.
7/20/92	1992-IR-97753	Checkpoint - Central	MEG	1.00	Radiator hose on truck ruptured.	Metis/Cleanup		Radiator hose on truck ruptured.
2/10/91	1991-IR-97616	Drill Site 11	Methanol	1.00	Leaked from hardline connection.	YES -		Leaked from hardline connection.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/24/94	1994-IR-100623	Point MacIntyre	Seawater	1.00	Flange on seawater line leaked.	Frozen seawater was shoveled into bags. - Ice was melted and seawater was added to facility's slop trailer to be held for injection at LPC.		Flange on seawater line leaked.
2/9/93	1993-IR-98100	Well Pad, Roads	MEG	1.00	Heater hose ruptured on pickup.	Metis/Cleanup		Heater hose ruptured on pickup.
2/10/91	1991-IR-97617	Drill Site 11	Methanol	1.00	Leak in connection on hardline.	YES -		Leak in connection on hardline.
7/22/92	1992-IR-97365	Main Construction Camp (MCC)	Diesel	1.00	Fuel dripped from fuel nozzle.	Metis/Cleanup		Fuel dripped from fuel nozzle.
2/11/93	1993-IR-98105	Airport	MEG	1.00	Pump on heater on bus failed.	Metis/Cleanup		Pump on heater on bus failed.
12/27/92	1992-IR-97865	Drill Site 05	Crude Oil	1.00	Over filled slop oil trailer.	Metis/Cleanup		Over filled slop oil trailer.
7/31/91	1991-IR-100779		Diesel	1.00	Sprayed from hole in annulus.	YES -		Sprayed from hole in annulus.
9/6/91	1991-IR-97540	Pad 3	Diesel	1.00	Overfilled vehicle fuel tank.	YES -		Overfilled vehicle fuel tank.
10/23/99	1999-IR-98341	Drill Site 11	Diesel	1.00	Slop oil trailer overfilled.	The SRT responded and used a loader to scrape up the material.	The material was placed into an auto car dump box and manifested to pad 3.	Slop oil trailer overfilled.
10/23/99	1999-IR-98341	Drill Site 11	Seawater	1.00	Slop oil trailer overfilled.	The SRT responded and used a loader to scrape up the material.	The material was placed into an auto car dump box and manifested to pad 3.	Slop oil trailer overfilled.
5/8/92	1992-IR-97340	Drill Site 03	Lube Oil	1.00	Source and cause unknown.	Metis/Cleanup		Source and cause unknown.
8/30/92	1992-IR-97776	Drill Site 05	Diesel	1.00	Cause and source unknown	Metis/Cleanup		Cause and source unknown
7/7/93	1993-IR-97998	Drill Site 03	Seawater	1.00	Loose packing on SWI.	Metis/Cleanup		Loose packing on SWI.
5/5/91	1991-IR-97285	Well Pad, Roads	Lube Oil	1.00	Pick-up truck leaked.	YES -		Pick-up truck leaked.
3/21/93	1993-IR-97417	Seawater Injection Plant	Seawater	1.00	Overfilled tanker.	Metis/Cleanup		Overfilled tanker.
11/30/89	1989-IR-96862	Drill Site 09, Not specified	Diesel	1.00	Drive line on tractor broke causing U-joint to knock hole in fuel tank	Not specified	Not specified	Not specified
10/9/89	1989-IR-96780	Flow Station 1, Not specified	Crude Oil	1.00	Packing on agitator was leaked spilling crude onto water puddle on pad	Not specified	Not specified	Not specified
12/16/89	1989-IR-100863	Not specified	Diesel	1.00	"Cause unknown, suspect valve left open on a slop oil trailer tank."	Not specified	Not specified	Not specified
10/3/89	1989-IR-96775	Drill Site 14, Not specified	Crude Oil	1.00	Oil spilled out of hose after a suction operation draining sump	Not specified	Not specified	Not specified
5/14/89	1989-IR-96646	Drill Site 04, Not specified	Crude Oil	1.00	"While bleeding down well, hose came out of barrel."	Not specified	Not specified	Not specified
12/17/89	1989-IR-96886	Drill Site 05, Not specified	Crude Oil	1.00	Snowmelt from cellar stained snow outside wellhouse.	Not specified	Not specified	Not specified
11/3/89	1989-IR-96806	Spine Road, Not specified	Diesel	1.00	Stain on road was discovered by security guard.	Not specified	Not specified	Not specified
6/28/89	1989-IR-96695	Flow Station 2, Not specified	Seawater	1.00	Packing valve leaked as tank was being filled.	Not specified	Not specified	Not specified
9/10/89	1989-IR-96766	Drill Site 04, Not specified	Crude Oil	1.00	Leaking valve and bull plug on flowline vent.	Not specified	Not specified	Not specified
10/5/89	1989-IR-96778	Pad 10, Not specified	Methanol	1.00	Drained from a hose after loading material.	Not specified	Not specified	Not specified
7/23/89	1989-IR-96733	Drill Site 03, Not specified	Diesel	1.00	Leaked from fitting under stored rig.	Not specified	Not specified	Not specified
9/21/89	1989-IR-96767	Drill Site 06, Not specified	Diesel	1.00	ARCO light plant was leaking diesel.	Not specified	Not specified	Not specified

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/13/89	1989-IR-96717	Drill Site 14, Not specified	Crude Oil	1.00	Line on pump was not blinded.	Not specified	Not specified	Not specified
6/29/89	1989-IR-96700	Drill Site 09, Not specified	Diesel	1.00	Thermal expansion of fuel.	Not specified	Not specified	Not specified
3/3/88	1988-IR-96603	Drill Site 02, Not specified	Crude Oil	1.00	Line ruptured - ice	Not specified	Not specified	Not specified
7/28/88	1988-IR-96478	Drill Site 03, Not specified	Diesel	1.00	No greasehead press	Not specified	Not specified	Not specified
1/21/86	1986-IR-95965	Drill Site 11, Not specified	Crude Oil	1.00	Drain valve lft ope	Not specified	Not specified	Not specified
8/4/88	1988-IR-100719	Not specified	Diesel	1.00	Sprayed from valve	Not specified	Not specified	Not specified
8/17/88	1988-IR-96487	C Pad, Not specified	Crude Oil	1.00	Stored pipe leaked	Not specified	Not specified	Not specified
12/8/89	1989-IR-96870	COTU Facility, Not specified	Diesel	1.00	Overfilled a tank.	Not specified	Not specified	Not specified
6/25/87	1987-IR-96191	Drill Site 03, Not specified	Diesel	1.00	Triplex valve leak	Not specified	Not specified	Not specified
5/16/87	1987-IR-96186	Sag River, Not specified	Diesel	1.00	Faulty tritan pump	Not specified	Not specified	Not specified
3/5/89	1989-IR-96912	Drill Site 13, Not specified	Crude Oil	1.00	Sprayed from vent	Not specified	Not specified	Not specified
4/5/89	1989-IR-96943	Drill Site 18, Not specified	Crude Oil	1.00	Ice blocked valve	Not specified	Not specified	Not specified
11/27/88	1988-IR-96556	Central Compressor Plant, Not specified	Lube Oil	1.00	Trap malfunction	Not specified	Not specified	Not specified
9/8/88	1988-IR-96501	COTU Facility, Not specified	Diesel	1.00	Spilled over can	Not specified	Not specified	Not specified
4/28/83	1983-IR-96107	Drill Site 18, Not specified	Crude Oil	1.00	Found oil on pad	Not specified	Not specified	Not specified
4/28/83	1983-IR-96108	Drill Site 18, Not specified	Crude Oil	1.00	Found oil on pad	Not specified	Not specified	Not specified
8/15/88	1988-IR-96484	COTU Facility, Not specified	Diesel	1.00	Overfilled tank	Not specified	Not specified	Not specified
9/14/88	1988-IR-96505	Main Construction Camp (MCC), Not specified	Diesel	1.00	Overfilled tank	Not specified	Not specified	Not specified
6/16/86	1986-IR-95957	Drill Site 09, Not specified	Crude Oil	1.00	Leaking flange	Not specified	Not specified	Not specified
2/4/89	1989-IR-96884	Drill Site 14, Not specified	Crude Oil	1.00	Mist Carryover	Not specified	Not specified	Not specified
6/22/88	1988-IR-96436	COTU Facility, Not specified	Diesel	1.00	Hose ruptured	Not specified	Not specified	Not specified
6/28/87	1987-IR-96196	Drill Site Maintenance, Not specified	Lube Oil	1.00	Hose ruptured	Not specified	Not specified	Not specified
11/14/88	1988-IR-96270	G&I Facility, Not specified	Crude Oil	1.00	Hose ruptured	Not specified	Not specified	Not specified
5/25/88	1988-IR-96357	Drill Site 16, Not specified	Crude Oil	1.00	Hose leak	Not specified	Not specified	Not specified
7/18/00	2000-IR-95138	Well Pad X	Desolvit	1.00	The APC Wellhouse Cleaning crew left a 5 gallon container of DeSolv-it 143 on the tailgate of the pick-up. The crew had failed to place the cap on the container and when the pick-up was pulled forward, the container fell off the tailgate. Approximately 1 gallon of the cleaner was spilled onto the gravel pad. The crew immediately placed absorb on the contaminated area and then contacted APC Safety. The crew cleaned up the contaminated gravel, placed it in an oily waste bag, and deposited it in the Environmental Warehouse.	Contaminated gravel was shoveled into oily waste bags.	Material was determined to be non-hazardous and will be taken to Pad-3 disposal facility.	none

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/17/00	2000-IR-95120	Spine Road	Lube Oil	1.00	On July 17, a road crew was in the process of laying down chip seal on the Spine Road in front GC-1. The process uses a lay down machine to spread chipped gravel unto an asphalt emulsion sealant, and is capable of paving sections of the road eleven feet wide requiring three passes to pave the ~30 foot wide road bed. As the lay down machine traveled down the road laying the chip seal, end dumps backed up with the box raised dumping gravel. When the truck was empty, the driver pulled away from the machine. To avoid damaging the freshly laid down chip seal, the truck backed down the newly paved area. After the first section was laid, a new loaded dump truck started backing towards the lay down machine. The driver was watching his left mirror to avoid running off the edge of the paved strip when he felt the truck start to settle into the shoulder of the road and start to tilt. The truck continued to roll tipping on its side and coming to rest on the pipelines.	Standing oil on road was cleaned up with absorbent. Gravel was shoveled up and sucked up with a super sucker.	Gravel was taken to Pad-3 disposal facility.	none
6/19/00	2000-IR-95049	Well Pad W	Lube Oil	1.00	Lube oil discovered on edge of road. ACS Techs cleaned it up, bagged lube oil contaminated gravel.	shovel, rakes, bagged.	contaminated gravel	none
4/11/00	2000-IR-94852	Well Pad E	Fresh Water	1.00	While supporting well stimulation work on E-19, a fluid transport hauling a solution of 12% hydrochloric acid developed a small leak in piping suspended under the tanker. Before being discovered during a walk-around inspection, the piping had leaked approximately 1 gallon of fluid onto the snow-covered pad. After the leak was discovered, spill containment was placed under the piping and the tanker was drained. The tanker was then removed from service and returned to Deadhorse for inspection. Inspection revealed a pin hole leak in a weld in a section of the piping used for side loading.	Hand shoveled all contaminated material.	Put into a fluid transport truck for reuse.	N/A
5/3/00	2000-IR-94934	Well Pad K	Seawater	1.00	Approximately 1 gallon of seawater leaked from a tank located at well K-1. The Dowell Coiled Tubing Unit arrived on site and completed their safety meeting at 0900 hours. On their initial walk around inspection of the location, one of the Dowell employees noticed that there was a small amount of fluid under the front right corner of seawater tank #2. Inspection revealed a pinhole leak under the insulation and sheet metal of the tank. The Dowell Coiled Tubing crew had been working on this well for 3 days. The crew left location at approximately 2000 hours on May 2nd. The tank was filled with 315 barrels of seawater at midnight in preparation for the next days operations. It is undetermined as to when the leak began. Spill containment was placed under the leak and the BP Environmental group was notified. WSA Safety and the Well Ops Team Leader were also notified of the spill and began an investigation. The spill was limited to the snow covered pad.	Cleaned up with hand tools. All contaminated snow was bagged.	Contaminated snow to Pad 3	N/A
4/29/00	2000-IR-94932	Well Pad S	Corrosion Inhibitor	1.00	Fluids from S-riser leaked from corrosion coupon onto wellhouse floor. Total volume estimated at 2 gallons. Some disagreement as to whether fluid was oil or corrosion inhibitor.The well had been flowing and was shut in as part of a safeout for manifold work. It is believed that leak occured due to fitting cooling once well was shut in	Contaminate removed using hand tools, bagged for disposal at Pad 3	Will be taken to Pad 3	N/A
12/27/93	1993-IR-86556	Well Pad H	Methanol	1.00			Snow containing diesel and hydraulic fluid was taken to Arco Pad 3. Snow containing methanol was taken to A3W2 melt tank and re-used for freeze protection.	
11/14/99	1999-IR-94384	Well Pad K	Methanol	1.00	A 1/2 needle valve and bleed cap on a sample point on K-19 S-riser were inadvertantly left loose or open. The well flowline had been displaced with neet meoh and the sample bleed cap started to drip spilling about 1 gallon of MEOH into the wellhouse.	Affected gravel was removed with hand tools.	Exempt material was placed in an accumulation bin for dispoal at Pad 3.	
12/9/99	1999-IR-94442	Well Pad B	Drilling Mud	1.00	The end of the shaker dump line into the cuttings tank froze and plugged. The fluid backed up in the dump line. The fluid leaked out of the line at a connection. The mud sprayed on the ground and the side of the tank. Approximately 1 gallon of mud reached the pad.		Material was reused for it's intended purpose.	
7/10/00	2000-IR-95159	Drill Site 05	Crude Oil	1.00	Leaky flange on production line resulted in a 1 gallon crude spill at Drill Site 5, Well 25. Spill response team was called out and the spill cleaned up.	Spill reponse team cleaned up spill.		

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/8/03	2003-IR-505836	Well Pad H, WOA H-pad near well #27	Drilling Mud	0.75	On 5/8/2003 Vac unit # 86065 was switched from hauling new drilling mud to Nordic 2 to hauling returned drilling mud (Flo-Pro) from Nordic 2. Truck was returned to VECO Base yard at approximately 17:35 hours after offloading at pad 3. Driver change out was completed at approximately 18:00 hours. At approximately 19:00 hours, Vac unit # 86065 was dispatched to Nordic 1 to perform clean up operation of the Schlumberger cement pumper after completion of a cement job on H-27. The driver arrived on site at approximately 20:00 hours and staged unit to side of pad as the Nordic unit was not quite ready and other Vac units were moving in and out of area. At approximately 21:00 hours, the driver was backed into position and went upstairs to the ops cab for a pre-job safety meeting. At the close of meeting, approximately 21:30 the vac truck driver asked how long it would be before he was needed and he was told 20-30 minutes. The driver stated that he went to designated smoking area to have a cigarette prior to preparing his unit for the job. At approximately 21:50 the driver returned to his truck to begin building a vac. As vac was building the driver pulled out his hose and attached it to his loading/unloading valve and ran other end into Schlumberger pump truck in preparation for clean out. The driver returned to unit to check on vacuum pressure in tank. As he looked at the gauges, he noticed one gauge was reading roughly 4 inches of vacuum, and other gauge on unit was reading	Contaminated material was shoveled up and bagged for delivery to SRT	Contaminated material has been taken to the approved waste storage facility at T-pad, WOA.	This is an updated report. The previous report dated 5/09/03 incorrectly identifies the product spilled as KCL water/ cement returns. After further investigation it was found that the product was infact Flow Pro drilling mud. The amount released and disposal location remain the same. The cause has been updated to reflect equipment difficulty.
10/11/05	2005-IR-1577999	Drill Site Maintenance, DSM yard (EOA) and A-Pad (WOA), Non Process Area	Seawater	0.75	Pallets containing sacks of C-TEK (metal salt) material were loaded onto a VECO DSM boom truck in very high winds at Milne Point S-pad by the rig loader and transported back to DSM's yard and parked for the night. The following morning during a walk around inspection of the truck, a small stain was visible on the ground next to the boom truck. This was reported to environmental and the load was delivered to A-Pad for the job and unloaded onsite. None of the bags showed signs of damage at this time. Once onsite at A-pad, during the mixing of the material into the Halliburton Batch mixer it was discovered that a couple of the bags at the bottom of one of the pallets were damaged, resulting in a few more spots of released chemical at A-pad.	The spilled material and associated contaminated gravel was shoveled into bags using hand tools.	Contaminated gravel was taken to Pad-3 West Pit storage facility where it will be stored for future remediation.	Material released was a metal salt with proprietary ingredients called C-TEK. MSDS for C-TEK available through Halliburton Energy Services.
3/18/04	2004-IR-838358	Sag River, Sag River, Non Process Area	Hydraulic Fluid	0.75	While performing snow removal on Sag River Loader #52-308 experienced a hydraulic hose failure and leaked approximately 3 quarts of hydraulic oil onto the ice/snow. Inspection of the failed hose revealed that it was a new Caterpillar hose that was not crimped properly at the fitting. Spill was cleaned up and SRT was notified.	Loader, and dump box were used to remove contaminated material.	Approximately 18 cu yds was brought to the GPB T Pad storage cell for storage (NS Manifest #233552). Once the material is thawed, it will be vacuumed out and injected for disposal.	Notifications were made appropriate agency personnel.
8/27/03	2003-IR-605511	Well Pad M, M-Pad test separator relief line outlet	Crude Oil	0.75	GC-2 made an emergency bank shutdown due to high levels during the morning. The pad shutdown valves and the test separator inlet and outlet valves closed because of the blocked flow path. The operators closed the inlets of the pads affected. A sequence of valves either leaked-by or were not closed, allowing the test separator to build up to shut-in well pressure. When the pressure reached approximately 1325 psi, the rupture disks blew and the PSVs lifted, releasing material out of the emergency vent line. This line discharges into a bermed area of tundra.	Shovels were used to removed contaminated gravel. Weed Burners were used to clean affected tundra grass.	The contaminated gravel was taken to the grind and inject facility.	The emergency vent line discharges to a gravel berm.
10/9/06	2006-IR-2011376	Drill Site 06, DS 6 Manifold Bldg., FS3	Corrosion Inhibitor	0.75	Drill Site Operator discovered leak due to seal failure of regulator while walking through manifold building at DS-6. Operator isolated and cleaned up chemical (corrosion inhibitor) and notified 5700	Clean up completed by Drill Site Operator. Absorbents were used to remove cnotaminate.	Absorbents went to oily waste stream.	Agencies were notified of release.
3/24/03	2003-IR-466592	Drill Site Maintenance, VECO Wells Support Yard (South Hanger)	Schmoo-B-Gone	0.75	A vac truck staged at the VECO Wells Support Yard with 160bbls of water with 15% Schmoo-b-gone developed a leak in the rear hatch due to a seal failure. The Wells Support protocol for a staged vac unit in the yard with fluids on board was being followed. A check had been made on the unit at approximately 17:00 hours. At that time there was still a vacuum on the unit and no indication of problems. At approximately 17:45 hours the fueler, who was fueling the units in the yard noticed something dripping from the rear doghouse on Vac unit # 86047. He reported this to the VECO dispatcher. Investigation revealed that there was no longer a vacuum on the unit, and fluid was leaking from the rear hatch. A vac was re-established on the unit to stop the leak and all of the required notifications were made. SRT was notified and responded to clean up the released fluid. The amount of the released fluid was estimated to be 3 quarts. The remaining fluids in the leaking vac truck were transferred to another vac unit so the leaky Vac truck could be taken in for repairs.	Chipped up with hand tools.	Due to high PH levels in test results, Material will be shipped off Slope for Hazwaste Disposal.	Agency notifications were made.
2/29/04	2004-IR-819192	Drill Site 17, DS 17 Manifold Bldg., FS2/COTU	Crude Oil	0.75	WHILE CLEARING SUMP DISCHARGE LINE OF PLUG VESSEL WAS PRESSURED UP AND DISCHARGED FLUID OUT OF THE 1" ATMOSPHERIC VENT	Hand tool's were used to remove contaminated snow from area. Contaminate on mod. will be cleaned at spring time. NOTE: Outside Mod. wall's have been cleaned.	Recovered material was brought to G&I for disposal. NOTE: Sorbent, and Rag's went to oily waste stream.	
2/29/04	2004-IR-819192	Drill Site 17, DS 17 Manifold Bldg., FS2/COTU	Produced Water	0.75	WHILE CLEARING SUMP DISCHARGE LINE OF PLUG VESSEL WAS PRESSURED UP AND DISCHARGED FLUID OUT OF THE 1" ATMOSPHERIC VENT	Hand tool's were used to remove contaminated snow from area. Contaminate on mod. will be cleaned at spring time. NOTE: Outside Mod. wall's have been cleaned.	Recovered material was brought to G&I for disposal. NOTE: Sorbent, and Rag's went to oily waste stream.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/11/04	2004-IR-1163959	Well Pad M, M-29 Well , GC2/SAT	Methanol	0.75	Loose fitting resulted in a neat methanol spill at M-29 Well Location	All the contaminated snow and gravel has been removed from the spill area with the use of a shovel.	The exempt contaminated material has been taken to the T-Pad solid waste storage facililty.	
7/17/02	2002-IR-267850	Well Pad Z, Z-9	Seawater	0.75	Schlumberger Coil Tubing Unit # 3 was rigged up on Z - 09 preforming CT Clean Out work. It was necessary to switch from one upright tank to another, when a hose was dropped. The spill containment below the connection consisted of 2 black rubber bowls and a metal bucket. Crew member dropped hose and struck bucket, which contained fluid, causing it to tip over. ~ 3/4 gallon of slick water was released to gravel pad. Proper notifications were made and gravel was shoveled up and placed into oily waste bag for SRT.	Contaminated gravel was shoveled into oily waste bags for disposal transportation.	Contaminated gravel will be taken to T-Pad or Pad-3 for disposal.	
9/21/01	2001-IR-119314	Well Pad J	Corrosion Inhibitor	0.75	per operator : On 9-21 J-13 leaked crude oil and chemical from the wing valve stem seal. The well was shut in for the GC-02 turn around. The chemical system was at zero pressure and shut down for the turn around. When the stem seal cooled off from the well being shut in it began to leak. This was the fliud left in the tree, chemical and crude. The grease crew was notified, they serviced the wing valve and the leak stopped.	Shovels were used to remove contaminated gravel from Well cellar.	The class II material was taken to Drill site 4 grind and inject.	
9/21/01	2001-IR-119314	Well Pad J	Crude Oil	0.75	per operator : On 9-21 J-13 leaked crude oil and chemical from the wing valve stem seal. The well was shut in for the GC-02 turn around. The chemical system was at zero pressure and shut down for the turn around. When the stem seal cooled off from the well being shut in it began to leak. This was the fliud left in the tree, chemical and crude. The grease crew was notified, they serviced the wing valve and the leak stopped.	Shovels were used to remove contaminated gravel from Well cellar.	The class II material was taken to Drill site 4 grind and inject.	
12/7/02	2002-IR-386235	Drill Site 14, DS 14 WELL 8	Seawater	0.75	SLICKLINE CREW WAS IN THE PROCESS OF BLEEDING DOWN THE LUBRICATOR TO MAKE A TOOL CHANGE OUT. THERE WAS 50 PSI ON THE WELL HEAD AT THE START OF THE BLEED DOWN. THE PRESSURE ON THE LUBRICATOR BLED TO -0- AND THERE WAS NO FLUID COMING OUT OF THE BLEED HOSE INTO THE BLEED TRAILER. AT THIS TIME ANOTHER NEEDLE VALVE WAS CHECKED, NO FLUID OR PRESSURE WAS DETECTED. AT THAT TIME THE CREW UN-DID THE QUICK UNION AND LIFTED THE LUBRICATOR UP. ONCE THE O-RING SEAL WAS BROKE A SMALL AMOUNT (3 QTS) OF SEAWATER SPRAYED UP AND OVER THE WELL HOUSE. THE LUBRICATOR WAS QUICKLY STABBED BACK ON. AT THAT POINT IT WAS DETERMINED THAT ALL NEEDLE VALVES AND BLEED HOSES WERE FROZE UP. AND THAT THERE STILL MIGHT BE FLUID IN THE LUBRICATOR. HEATERS WERE PLACED ON ALL VALVES AND HOSES AND ALL VALVES WERE THAWED AND LUBRICATOR WAS BLED OFF.	Hand tools were used to remove contaminated snow, and put in to oily waste bags.	Material was brought to G&I for disposal.	
8/26/07	2007-IR-2383183	Well Pad D, D-Pad Skid 56 Mod Chemical Injection Panel, Pulsation Dampener Unit, GC1	Corrosion Inhibitor	0.75	A CI release was identified at D-PAD Skid 56 on the evening of 8/26 by Pad Operator walking through the facility at approx. 9PM. The release occurred through a pressure bleed hole near the top of the unit. The Pad Operator shut in the CI injection equipment mitigating the leak and soaked area with absorbents. SRT was notified by the pad operator and responded. The release was cleaned up the following morning by SRT. The release was initially reported as a 2 gallon quantity. Upon initial review of failure, it was reported that the bladder inside the pulsation dampener unit failed because of chemical incompatibility with material, allowing fluid to compromise the cup seal, thus leaking through the pressure bleed hole. First time a release was identified through this pressure bleed hole.	Release was mitigated by first responder by shutting in chemical injection pump. Release was soaked with absorbents immediately.	Absorbents disposed of per procedures.	
1/30/98	1998-IR-90361	Well Pad U	Motor Oil	0.75	While driving from P pad to U pad, the driver failed to negotiate the 90 degree corner at the Kuparuk River and slid off the roadway, turning the pickup on its side. The driver, who was alone in the vehicle, was not injured. Approximately 0.75 gallons of motor oil and 0.25 gallons of transmission oil leaked from the vehicle and onto the snow-covered tundra. All spilled material was cleaned up and no tundra was affected. See LCIR 98-BPX-0078 for additional information and action items.		Snow will be placed into an accumulation bin on Santa Fe Pad.	A Trico employee driving NANA Oilfield Vehicle #13 failed to negotiate a 90 degree corner and skid off the road turning the vehicle on its side. Approximately .75 gallons of motor oil and .25 gallons of transmission oil leaked from the vehicle and into t

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/30/04	2004-IR-886707	Niakuk Well Pad, Niakuk module 4901, GPMA	Methanol	0.67	Little Red Services was rigged up to Well Slot NK-15 inside Niakuk Module 4901 in preparation for pumping a freeze protect on multiple flowlines. Hose fitting (on module-end of hose) failed during pressure test to 2800# causing an eight ounce release of 100% methanol. The pump operator immediately pulled a vac. on hose to evacuate remaining methanol from hose. When the hose fitting failed, the hose came free from whip check. The module was evacuated and the hose was pulled out the module door. Personnel shut down all ignition sources and evacuated to the pad entrance. The release caused numerous gas alarms, one head reaching 60% and several in 35% range (due to sensing the spilled Methanol). The Lead Drillsite operator requested (by radio) for the LPC control room opeator to call x5300 and dispatch the Fire Dept. The GPMA Area Manager was paged for notification. The gas readings started trending down very shortly thereafter. Securirty was asked to notify the Fire Chief that situation was under control. When the gas readings got below 10% the module was approached cautiously and the doors were opened for better ventilation. The module was entered and inspected for spill volume and area affected were noted.	Wiped up with one small absorbent pad. Deposited same in oily waste bag for SRT to pickup for appropriate disposal.	Hazwaste.	Notifications were made to agencies.
2/5/05	2005-IR-1232235	Drill Site 07, DS 7 RELIEF PIT, FS3	Crude Oil	0.50	While depressuring test seperator a carry over of crude mist went into the relief pit.	Hand tools were used tor recover the light mist on the snow.	Contaminated snow was taken to G&I for disposal.	The test separator was depressure very slowly taking about 45 minutes to depressure which should have prevented any spill. The oil mist was in the gas coming from a leaking test divert and the relief tank does not have an intertia separator like the other drill sites so there's nothing to knock out the liquids in the gas stream
9/9/06	2006-IR-1974511	Field Ops Center (FOC), Behind Annex I on Pad. (FOC), Non Process Area	Desolvit	0.50	CUI crew was in the process of loading cribbing into truck for the transit pipeline job. As the crew was throwing cribbing into the truck, one of the pieces of cribbing inadvertently hit a bucket and knocking it over. Crew didn¿t notice it right away till the lead seen fluid dripping down on the side of the truck, at that time he placed containment underneath and put the bucket into the containment. The bucket had orange-sol in it with some tools that were soaking trying to get the polyken tape residual off of them.	Shovels were used to remove contaminated gravel from access road.	The gravel was placed into an SRT accumulation bin and will be taken to Pad 3 disposal facility.	A verbal notification was made on 09/09/6 at approximately 1300 hours. Initially it was thought to be 5 gallons that spilled but the material was in a 5 gallon bucket and only contained approximately 1/2 gallon.
1/20/07	2007-IR-2126960	Spine Road, On snow near Put River., Non Process Area	Hydraulic Fluid	0.50	Employee was driving from Drill Site 6 going to the BOC for fuel, then going to go to Sante Fe Pad CUI office. While he was driving by the Putt River the driver momentarily fell asleep causing the vehicle to swerve to the right. When the vehicle was about to hit a delineator the driver awoke and tried to correct by applying the brakes, the tires locked up on the ice and the truck continued at an angle over the delineators and over the bank. The truck went over the edge of one culvert then contacted the next culvert on the upper half with the front end of the truck; this caused the back end of the truck to go down and to the right, rolling over onto the passenger side. There was substantial damage to the truck, the air bags deployed. The employee thought there was smoke in the vehicle so he tried to get out, the drivers door was jammed from the impact, so the employee went to the back seat and opened the drivers side rear passenger door and exited from there. MERT responded to the call and transported the driver to the BOC clinic for examination. The employee sustained a contusion/abrasion to the left eyebrow, and an abrasion to the left leg, this is classified as a first aid. The vehicle leaked fluids onto the snow. SRT and ERT responded to the call for support.	The contaminated snow was removed using shovels.	The material was taken to T-pad storage facility.	The verbal notification was made on 01/20/06 at approximately 1920 hours after it was determined that the vehicle was leaking material under it. The GPB West environmental advisor made the verbal notifications.
2/2/05	2005-IR-1230528	Well Pad K, K-07, GC1	Methanol	0.50	Leaky fitting resultated in a neat methanol spill inside the well house for K-02. Estimated lost 1 guart to the insulation, and 1 guart to the pad inside well house.	The contaminated absorbent and insulation was placed in an oily waste bag for disposal. The contaminated snow and gravel was shoveled into bags for disposal transportation.	The contaminated snow and gravel will be taken to DS-4 Grind & Inject facility. The contaminated absorbent material and insulation will be taken to an approved NSB oily waste dumpster.	The material was initially called in as a half cup of corrosion inhibitor and upon further inspection was determined to be a half gallon of neat methanol from a freeze protected flowline.
1/27/07	2007-IR-2133784	Well Pad M, M-34 S-riser, GC2/SAT	Methanol	0.50	While pumping methanol in the M-34 S-riser, a half gallon of neat methanol leaked from a bull plug on the bottom of the riser. The operator tightened the bull plug and the leak stopped.	Sorbents were used to wipe the containment. Shovels were used to remove contaminated gravel.	Sorbents, and recovered gravel were taken to the GPB Hazwaste coordinator for proper disposal.	The verbal notification was made by the GPB environmental advisor at approximately 2125 hours. Note, there was only a trace amount spilled onto the gravel inside the wellhouse.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/6/04	2004-IR-894523	C Pad, Tank 1905, C-Pad, Non Process Area	Corrosion Inhibitor	0.50	During a waterwash with hot water, the condensate, a mixture of water and a small amount of corrosion inhibitor, was released from the manway on top of the tank. It went unnoticed due partly to phase 1 weather conditions, consisting of 30+ mph and blowing snow. The dirty water eventually left a discoloration on the snow in the containment area, which was noticed by the C-pad operator.	Contaminated snow was recovered with hand tools and a bobcat. Snow melt water was removed with a vac truck.	Material was taken to T-Pad for disposal. Snow melt water from the containment was taken to Pad-3.	Immediate notifications were made. A spill review was conducted on 5/7/04 with Russ Cary, Rick Walton, John Tryon, Mark Cabeen, Jim Short, Chuck Wheat, and Victor Richart.
11/29/03	2003-IR-694235	Flow Station 2, Flow Station Two - Outside Module 4916	Hydraulic Fluid	0.50	The oily waste receptacle delivered to the FS for the TEG changeout in October was picked up on 11/29/03. After removing the dumpster, it was discovered that small quantities of both hydraulic fluid and glycol had leaked to the snow and gravel pad. As the dumpster was lined, and the waste was contained in oily waste bags, the seapage occurred from both the bags and the dumpster.	Bobcat, Loader, and dump box were used to remove contaminated material.	Material was brought to T Pad for disposal..	Spill Investigation: Met with Joe Ralph. FS2 had put a double liner inside the dumpster, but the liner broke. FS2 will check the integriy of the liner in the future.
3/11/06	2006-IR-1758386	GC-2 Pad, Gc-2 Crude Oil Spill Site, GC2/SAT	Motor Oil	0.50	A blown engine in a skid steer loader working on the GC-2 Flowline spill caused approximately 2-quarts of motor oil to spill onto the snow covered tundra area.	The contaminated material was cleaned up using hand tools and placed in oily waste bags for dispoal transportation.	Material will be melted down and recycled.	The spill was initally called in as a 2-gallon spill from a Kubota tractor. This information was incorrect and the above information is correct.
3/31/01	2001-IR-101131	Well Pad U	Diesel	0.50	With a tractor park on an ice road at an incline. Fueler approached the passenger side of a Tractor. Which was lower than the drivers side. Placed a containment down and opened up the fuel cap. Fuel began to spill out of the tank onto the containment and the ice. Of which 1 QT of fuel made contact with the ice road. Fueler then with to drivers side and filled tank. Not knowing the two tanks would feed off the same lines. HCC Spill Response crew notified along with HCC HSE, Night Foreman and ACS.	Material was cleaned up using hand tools and placed in oily waste bags.	Contaminated snow and diesel will be melted down. The diesel will be skimmed off the water and the water will be tested for benzene and flash before disposal.	Spill number 01-065W is being used because a non-reportable spill was reported using this number and has been retracted.
3/10/02	2002-IR-181243	Well Pad N, N-pad well #7	Seawater	0.50	An upright was staged at N-pad well #7 on the night of 3/09/02 for a coil tubing job to be done on the following day. The UR was loaded with KCL at approximately 00:30. The driver that loaded the UR completed his spill champion checklist, green card, fluid transfer permit and greased the valve following company guidelines. On the morning of the 10th as the coil unit was rigging up one of the crew noticed that the UR was leaking from the bottom suction valve through the Kam-lok plug. The crewmember dragged a spill dike over and placed it under the fitting and contacted the company man on the unit and told him the situation. The company man alerted SRT (5700) and VECO dispatch. It was decided to get a Vac truck and remove the fluids from the UR. The vac truck driver stated that the valve was leaking when he pulled on the pad with the valve fully closed and a plug in the Kam-lok. The driver was to hook up to the UR and empty it. The coil unit crew assisted him with this task. They pulled the hose and put a vac on the truck, the driver opened his valve and the crew pulled the plug and the driver shoved the hose in the Kam-lok and opened the valve. The truck was bouncing like it was getting air so they shut in and closed the valve. They pulled the hose off the Kam-lok and it was leaking approximately about 2 quarts a minute with the valve shut. It was noticed that the Kam-lok gasket was missing so they replaced it and hooked back up and evacuated the tank. The driver was unsure if the gasket was missing prior or if he sucked into his hose. SRT arrived at scene and chiseled up the area and estimated the volume to be at one-half gallon.	Shovels were used to clean affected snow.	Material was reused on job.	Workers on site were monitoring tank during pressure up stage and caught the leak immediately and shut down process.
9/2/06	2006-IR-1963285	Well Pad E, E-15, GC1	Corrosion Inhibitor	0.50	While performing daily rounds at 9:00 PM on September 2nd the night operator discovered a drip coming from the base plate of a SkoFlo valve. The operator turned off the chemical and notified SRT. The area was cleaned up. We removed the SkoFlo and are bringing it in for inspection.	Hand tools were used to remove affected gravel from Well house. Sorbent material was used to recover liquids in catch pan.	The sorbents were taken to an oily waste dumpster. The gravel was taken to the SRT accumulation bin and will be taken to Pad 3.	The initial verbal notification was made on 09/02/06 by the GPB West environmental advisor at approximately 9:15 Pm
9/13/07	2007-IR-2409120	Well Pad D, GC1 well D-16, GC1	Methanol	0.50	While the operator was making his daily HSE rounds, he noticed a small drip from the wing valve. The operator put a drip pan under the valve in the cellar and called in the spill to the spill hot line. Maintenance was called and the valve was repaired and returned to service. SRT arrived in location and reviewed the spill site and cleaned up the spill the following morning.	Contaminated gravel was shoveled into an oily waste bag for disposal.	Contaminated gravel will be taken to G&I for class 2 disposal.	Immediate notifications were made. The spilled methanol was freeze protection fluid with a trace of crude oil.
7/12/07	2007-IR-2336315	Well Pad D, WOA D-Pad, behind Well 29, GC1	Corrosion Inhibitor	0.50	While conducting well cellar inspections, SRT discovered corrosion inhibitor drip/spill at D Pad Well 29 (a shut-in well). It appears that a fitting upstream of a lateral corrosion inhibitor tubing valve was loose, and the torque seal was broken. A Field Operator tightened the fitting 1/4 turn to stop the spill.	Shovels were used to clean up contaminated gravel	The gravel was taken to the SRT accumulation bin and will be taken to Pad 3 disposal facility.	The verbal notification was made on 07/12/07 by one of the GPB Environmental advisor at approximately 11:50 am
5/12/06	2006-IR-1832578	Well Pad W, W pad Well 26 at lateral valve near reserve pit., GC2/SAT	Methanol	0.50	While preparing well W-26 for maintenance the WP operator discovered a small drip of methanol coming from the lateral valve stem packing. He immediately placed a drip pan under the leak and de-pressured the line. Repairs were made and the leak was stopped.	Shovels were used to clean affected snow and gravel.	Pad 3 disposal facility.	The initial verbal notification was made on 05-12-06 by the GPB Environmental advisor at approximately 08:35.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/10/04	2004-IR-1084677	Well Pad E, E-13, GC1	Corrosion Inhibitor	0.50	At 16:15, Norcon labor crew found a tubing leak (which was later indentify as corrosion inhibitor), after placing a bucket under the leak, they called their Safely personel. She arrived on site at 16:30 to check the sitiuation out, she notified 5100 and ACS Lead tech. Norcon tubing crew was working on E-pad at this time and responded on request from Norcon Safety to troubleshoot the cause of the leak. Tubing crew discover a loose connection on a swaglock fitting and was able to tighten and secure the leak.	Shovels were used to remove affected gravel from the Pad.	Pad 3 disposal facility	Verbal notification made on 10/10/04 estimated at 1 cup. After clean up the volume was changed to .5 gallon.
11/16/05	2005-IR-1622005	Well Pad L, GC2/SAT	Methanol	0.50	Pressure testing hardline for coil tubing job with methanol and hardline (chicksan) leaked.	Hand tools were used to remove contaminated material.	All the contaminated materials were taken to the GPB waste coordinator for proper disposal as hazardous waste.	The initial verbal report was on 11/16/05 at approximately 0135 by the GPB environmental advisor Jim Short.
10/25/05	2005-IR-1596697	GC-2, W-39, GC2/SAT	Methanol	0.50	While pad operator was performing routine inspections he discovered a methanol leak on W-39 lateral valve.	Contaminated gravel was removed using hand tools.	The material will taken to the Grind and inject facility.	The verbal notification was called in at approximately 13.20 on 10-25-05 by the WOA environmental advisor.
8/11/06	2006-IR-1940002	Well Pad H, H Pad 59 Skid, GC2/SAT	Corrosion Inhibitor	0.50	Pad Operator walked into the skid and discovered a leak from the head of the chemical pump. Operator shut off pump and isolated piping and placed absorbs over spill. Operator then notified Spill Rsponse (5700) and notified Chemical Operator who contacted Supervisor.	Sorbents were used to clean up the skid.	The sorbents were taken to an approved oily waste dumpster.	The verbal notification was made on 08/11/06 at approximately 0830 by the GPB West environmental advisor.
10/6/06	2006-IR-2006792	Spine Road, Non Process Area	Motor Oil	0.50	Employee traveled from Nabors 9ES (L-Pad) to Sperry Repair & Maintenance (R&M) Shop in Prudhoe Bay to fix a broken headlight. On the return trip at 5:00 am he was traveling on a straight section of Spine Road near the Ball Mill and was traveling 35 MPH. After the Ball Mill the speed limit increases to 45 MPH. Employee started to accelerate and the back end of the truck fish tailed to the right. He over corrected the vehicle and it spun around 180* and went off the road on the right side. Truck came to stop on driver¿s side. ½ gallon of transmission fluid and ½ gallon of engine oil were spilled. Employee was not injured. Spill Response Team was contacted. Truck was towed to repair shop.	Sorbent material was used to remove the oils from the standing water. Shovels were used to remove the small amount of gravel/tundra that was affected.	The sorbents were taken to an oily waste dumpster and the gravel was taken to and SRT accumulation bin and will be taken to Pad 3.	The verbal notification was given on 10/06/06 at approximately 0610 am by the WOA environmental advisor.
10/6/06	2006-IR-2006792	Spine Road, Non Process Area	Transmission Fluid	0.50	Employee traveled from Nabors 9ES (L-Pad) to Sperry Repair & Maintenance (R&M) Shop in Prudhoe Bay to fix a broken headlight. On the return trip at 5:00 am he was traveling on a straight section of Spine Road near the Ball Mill and was traveling 35 MPH. After the Ball Mill the speed limit increases to 45 MPH. Employee started to accelerate and the back end of the truck fish tailed to the right. He over corrected the vehicle and it spun around 180* and went off the road on the right side. Truck came to stop on driver¿s side. ½ gallon of transmission fluid and ½ gallon of engine oil were spilled. Employee was not injured. Spill Response Team was contacted. Truck was towed to repair shop.	Sorbent material was used to remove the oils from the standing water. Shovels were used to remove the small amount of gravel/tundra that was affected.	The sorbents were taken to an oily waste dumpster and the gravel was taken to and SRT accumulation bin and will be taken to Pad 3.	The verbal notification was given on 10/06/06 at approximately 0610 am by the WOA environmental advisor.
3/16/07	2007-IR-2192119	Well Pad A, A-pad Skid 56, GC3	Corrosion Inhibitor	0.50	The pad operator discovered that a 3/8 Swagelok fitting was loose in an area where a chemical pump had been removed by the facility mechanics a few days prior to the spill. The operator tightened the fitting and reported the release.	Sorbent material was used to clean affected area of Skid	The sorbents were taken to an approved Oily waste dumpster	The verbal notification was made on 03/16/07 at approximately 0130 by the acting environmental advisor.
1/23/02	2002-IR-159746	Drill Site 06, Drill Site 6 Well 11	Produced Water	0.50	While performing repairs to a leaking stem seal on the lateral line block valve for Drill Site 6 well 11 the Operator and Valve crew discovered snow that was contaminated with crude oil and water. The leak had originated at the stem seal but was not noticed due to the valve being wrapped in an insulating blanket. The valve had also drifted over with snow further sheilding the leak from view. The leak was small and had occurred some time earlier but was not active at the time it was discovered. Approximately 3 gallons of crude and water escaped to the snow and gravel pad. The snow and some gravel was removed and disposed of. Due to -42 degree ambient temperature some of the gravel that was frozen in place will be removed later by ACS.	Loader,and dump box were used to remove contaminated material.	Grind and Inject.	Walt Sandel of ADEC was notified that the spill would be finished up in the spring due to frozen pad.
8/4/02	2002-IR-283125	Drill Site 11, Prudhoe Bay Drill Site 11 manifold building	Corrosion Inhibitor	0.50	Operator noticed chemical injection pump head leaking. The leak overfilled the containment tray and onto the module floor. The chemical was EC-6085A (scale inhibitor). Spill was cleaned up by operations and SRT was called to inspect clean-up and dispose of clean-up materials.	Recovered material with absorbents and placed into appropriate containers for disposal.	After consultation with waste coordinator, material was disposed of as oily waste.	Immediate notifications made to the appropriate agencies. Initially reported on 8/4/02.
5/19/06	2006-IR-1838797	C Pad, C PAD MAIN WAREHOUSE FLOOR, Non Process Area	Paint	0.50	EMPLOYEES WAS PICKING UP A PALLET WITH 4 DRUMS OF PAINT WITH A FORK LIFT. WHEN EMPLOYEE PUT THE FORKS UNDER THE PALLET, THE FORKS WENT ALL THE WAY THROUGH THE PALLET AND PUNCTURED A DRUM ON THE PALLET BEHIND.	Absorbents were used to wipe up and recover the spilled material.	Contaminated absorbents were taken to the Waste Coordinator for Haz-waste disposal.	The actual material spilled was: Envirolastic AR-425 Polyurea (1 part of epoxy coating)
4/17/96	1996-IR-98595	Checkpoint - Central	Sulfuric Acid	0.50	"During transport, tailgate on vehicle came down and battery slid out of truck bed."	"Contaminated snow was picked up using chipping bars, shovels and brooms. -"		"During transport, tailgate on vehicle came down and battery slid out of truck bed."

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/5/04	2004-IR-966263	West Dock, North dock face of dock head # 3, Non Process Area	Diesel	0.50	At approximately 10:45 am, A Crowley employee discovered a sheen on the water in front of the north dock face at West Dock # 3. He then Called SRT. SRT went out and confirmed the sheen was from hydrocarbon and called it in to x5700 (11:47am) then to environmental. It appeared that the sheen may have come from a contaminated storm water run off area on the pad. When SRT got there, there was already approximately 40 ft of sorbent boom pre-deployed in the area of the storm water run off and the sheen was escaping the east side of it.	Contained area with 440 feet of sorbent boom and used a vac truck to start recovering some of the sheen.	Fluids recovered with a vac truck went to pad-3 for disposal.	The volume amount given is a best estimate. There was no actual product visible.
9/30/05	2005-IR-1563272	Well Pad C, C-28, GC3	Corrosion Inhibitor	0.50	While making rounds, the area Chemical Operator discovered chemical leaking from a fitting adjacent to the skoflo chemical control valve. He then notified SRT who came to the sight for clean-up and estimnated the quantity to be approximately 1/2 gallon.	Shovels were used to remove contaminated gravel.	The gravel will be taken to Pad 3.	A verbal notification was given 09/30/05 at approximately 10:10 am by Jim Short.
9/25/05	2005-IR-1555650	PM-2, P2-31, GPMA	Methanol	0.50	Stem seal leaked on SSV and dripped out actuator weep hole.	SRT removed affected gravel from the wellhouse	srt haul gravel off for disposal, material was taken to WOA waste coordintor for disposal.	well is SI awaiting wireline work, and was freeze protected with methanol
9/1/95	1995-IR-98525	Flow Station 1	Sulfuric Acid	0.50	A battery box burst open and battery fluid leaked onto gravel pad.	Handshovels were used to remove the contaminated gravel. - The contaminated gravel has been tested and confirmed to be non-hazardous. It was taken to Pad 3 West Pit on 9/9/95 to hold for future remediation. Contaminated sorbents were taken to the Haza		A battery box burst open and battery fluid leaked onto gravel pad.
4/2/06	2006-IR-1783007	Well Pad P, P-Pad Skid 502, GC1	Corrosion Inhibitor	0.50	While venting gas line to atmosphere for upcoming work, corrosion inhibitor that was in the line carried out the vent line.	Contaminated snow was removed from the snow covered gravel pad using hand tools and placed in oily waste bags for disposal transportation.	Contaminated snow has been taken to T-Pad storage pit.	Vent line tagged out of service until line can be decontaminated.
1/21/03	2003-IR-419819	Seismic Off-Pad, GPS Coordinace N 70 18 47.63 W 148 54 59.75	Diesel	0.50	During Seismic operations on the WOA side of GPB, a periodic walkaround inspection of a Seismic unit found a cracked weld on a fuel tank. This caused approximately .5 cup of diesel to drip onto the snow covered tundra. Diesel did not reach the tundra and non-emergency spill reporting number was called. Effected snow was recovered by using shovels and placing into an oily waste bag for SRT.	Clean up was done using shovels 7 placed in an oily waste bag.	The material will be placed in SRT melt tank and offered for hydrocarbon recycle.	corrected numbers below from 1 gallon to .5 gallon bd 2/3/03
5/13/01	2001-IR-101391	PM-2	Methanol	0.50	Crew was rigged up on Point Mac 2, well # 11 for an acid stimulation job. During rig up the crew prematurely hooked up a blow down hose to the make up pump manifold. They hooked one end of the hose to the make up pump manifold, and the other end was left lying on the back deck of the truck, near the compressor. The make up pump manifold was also connected to the MEOH trailer containing 60/40 methanol. While priming the pumps to begin the job, the methanol mix from the trailer gravity flowed passed a faulty butterfly valve on the manifold. This caused the blow down hose to fill with the methanol mix and a small amount, 1/2 gallon, leaked onto the ground. Normally, during the job, the unused manifold valves are capped and the blow down hose is not installed until the job has been completed and the crew is ready to blow down the system. The supervisor was standing next to the hose and noticed it leaking. He quickly delayed the job and secured the hose. He reported the spill to the PE on location. A total of 1/2 Gallon of 60/40 MEOH was spilled on to the pad. The spill was reported to security and to the Wells Group Supervisor. The crew responded immediately, the spilled material and the snow were cleaned up and placed in disposal bags as per SRT instructions. The cleaned up material was turned over to environmental for beneficial reuse.	Recovered with hand tools and placed into drum for melting and beneficial reuse.	Placed into drum for melting and beneficial reuse.	This information is being provided to ADEC per 18 AAC 75.300
2/21/07	2007-IR-2165786	Pad 3, Pad 3, Non Process Area	Sewage	0.50	Fluid got into actuator and blew out the vent stack when the PTO activated.	Remove contaminated snow with hand tools.		North Slope Borough is the responsible party for this spill.
7/7/05	2005-IR-1449509	Well Pad C, Well pad C well house 27, GC3	Corrosion Inhibitor	0.50	As the Pad operator at C-pad was making his rounds he discovered a corrosion inhibitor spill that had it's origin at an isolation valve. Upon further investigation it was discovered that all fittings were tight but were failing to hold the chemical system pressure. The fittings were replaced by the area chemical operator and returned to service. SRT was notified by the pad operator and cleaned up the spill. Volume was estimated to be 1/2 gallon.	Hand tools were used to clean up affected gravel. Sorbents were used to clean containment tray.	The gravel was taken to pad 3 disposal facility. The Sorbent material was placed in oily waste bag and taken to NSB oily waste dumpster.	Verbal notification was made 7/7/05 at 2230hrs by Jim Short
1/30/01	2001-IR-98886	COTU Facility, FS2/COTU	Sulfuric Acid	0.50	While the COTU operator's truck was idling beside the fuel terminal, one of the batteries exploded, spilling approximately 1/2 gallon of sulfuric acid on the gravel pad. No contamination of the tundra or any other area occurred and immediate clean up commenced.	Shoveled waste acid and snow into 55 gallon Poly drum for melting and disposal.	Ship off slope as haz-waste.	Waste battery to be shipped off through appropriate vendor.
9/19/02	2002-IR-317692	MCC Fuel Dock, MCC fuel island	Diesel	0.50	Diesel spill at fuel island from an unknown source	Recovered material with loader and absorbents.	10 cubic yards of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies.
5/12/02	2002-IR-221496	Drill Site 01, Drill Site 1 Well 26 inside well house	Corrosion Inhibitor	0.50	During the course of normal daily activity, a Chemical Operator entered well house 1-26 to check the chemical injection system. He discovered corrosion inhibitor leaking from a SwageLok filter housing. The leak was determined to be due to housing body seal failure.	Recovered material with absorbents and placed into oily waste bag for disposal.	Material will be disposed of as hazwaste.	Immeditate notification made to the appropriate agencies.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/31/01	2001-IR-148959	C Pad, C-Pad bulk storage	Corrosion Inhibitor	0.50	During a transfer of chemical RU256D from bulk to a batch treat truck, a mist consisting of RU256D came out the top of the truck tank. It was then discovered that the material in the sight glass had frozen, and consequently the tank was inadvertantly overfilled to where a mist came out the top. The spill was reported (5700), the spill techs and the CIC HSE Advisor then came to the location and evaluated the spill. It was determined that approximately 2-3 qts of misted material entered the secondary containment area located on that portion of the C-Pad bulk storage area.	Shovels and scrapers were used to clean up contaminated material.	Contaminated material was tested for flash point and brought to Pad 3 for disposal.	ADEC was notified By phone. Walt Sondel was the contact.
8/29/02	2002-IR-301046	Drill Site 02, DS #2, Well #18	Drag Reducing Agent (DRA)	0.50	The Driver had vacuum on the line when the hammer union was loosened and disconnected by another employee. One end was put in the liner and the driver disconnected the hose from the truck and placed it in the hose tray. About 1/2 gallon of fluid leaked out of the hose under the truck.	Recovered material with hand tools and placed into container for disposal.	1 cubic yard of material taken to T-pad for disposal.	Verbal notifications made to the appropriate agencies.
5/16/07	2007-IR-2266881	Well Pad X, X-09 behind vac truck and in front of coil unit., GC3	Schmoo-B-Gone	0.50	Operator opened vent line to relieve pressure from vac truck. He saw a shadow go over him and shut off valve immediately. He saw that some material had come out the vent line on the vac truck and misted to the ground. HSE was notified as well as SRT. Material was scraped from the snow and SRT picked up the two bags on location. Material in tank was 83% water and 17% Schmoo-B-Gone.	Material was scraped up with shovels and bagged in two oily waste bags.	The material was reused as a cleaner at the drum crushing facility.	The solution was 17% Schmoo B Gone and 83% Water
11/1/05	2005-IR-1601064	PBOC, PBOC B wing, Non Process Area	Sewage	0.50	On 1/11/2005 at approximately 16:00 employees were in the process of adding a fire protection sprinkler system to the soffit area of the PBOC. While cutting an access hole the employee inadvertently nicked a PVC waste water line causing a small release of waste water. The release was stopped and the incident was reported. All the release material was cleaned up and disposed of in accordance with waste disposal guidelines. The event was called into the ADEC Water Division on 11/2/05 (within 24 hours), and to the NPDES Hotline on 11/4/05 (exceeded the verbal 24hour notification requirement).	Hand tools were used to remove contaminated material.	Material will be brought to T pad for disposal.	ADEC Waste water was notified of release.
7/18/03	2003-IR-571621	Fire Station, Gravel pad in front of Fire Station	Hydraulic Fluid	0.50	Underwriters Laboratories was doing a ladder test on our 100ft ladder truck. After the test we were retracting the ladder when a hydraulic line ruptured	Loader and Bobcat were used to remove contaminated material.	Material was brought to Pad 3 for disposal.	Notifications were made to all agencies.
4/21/04	2004-IR-877306	Pad 10, Pad 10 Methanol loading area, Non Process Area	Methanol	0.50	During morning walk arounds spill was discovered, responsible party unknown.	Hand tool's were used to remove contaminated material.	Benificial re-use.	Notifications were made to all agencies.
4/23/04	2004-IR-878769	Well Pad C, C-06 wellhouse., GC3	Methanol	0.50	While making his rounds, the pad operator discovered fluid spraying out through the threads of a plug inserted into the drain valve on the S-riser of well C-06. The operator stopped the leak and notified x5700 to report the release.	All the released material was recovered using sorbent pads and shovels. The freestanding liquid was recovered with the sorbent and the contaminated gravel was shoveled into oily waste bags for transport to an approved storage facility.	The contaminated sorbents were taken to the solid waste storage facility for Greater Prudhoe Bay, located on cold storage pad. The gravel was transported to the T-Pad solid waste storage pit.	The bad valve was replaced on 4/24/04.
3/19/07	2007-IR-2193822	Drill Site 18, Module 4932 L2 Drillsite, FS1/SIP/STP	Corrosion Inhibitor	0.50	Failure occured in Module 4932 on L2 Drillsite. Heaters had failed the night prior. The module lowered in temperature, causing a quarterturn valve on the tubing between the Chemical Tank and Chemical Pump to leak from the stem.	Absorbent was used to wipe up fluid.	oily waste.	All agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/4/02	2002-IR-331186	Drill Site 14, DS 14 # 44	Methanol/ Water	0.50	On the afternoon of 10/3/2002 a wells support crew was sent to Drill Site 14 well 44 to remove the flowline lateral line and the A/L lateral line. The flowline had been previously shut-in and freeze protected. The crew opened the lateral valve and inlet gate valve (IGV) on the flowline and utilizing A/L gas the flowline was blown down to remove as much of the freeze protect fluid from the line as possible. After several hours of blowing the line down that portion of the operation was secured. The IGV and the flowline lateral valve were shut and locked out. The remaining pressure between the wing valve and the lateral valve was bled into a bleed trailer. With a half-barrel under the flanges, and a Vac truck standing by the lateral line flanges were unbolted and the lateral line was removed. A small amount of fluid continued to drain from the upstream end of the lateral line valve. This fluid was caught in the half barrel and Vac¿d up. Blind flanges were installed on the wing valve, and the upstream side of the lateral line valve. The crew removed their locks from the IGV and the lateral line valve, cleaned up and departed the area. (Note the drill site operators were not on location at that time, approximately 18:00). At some point between the crew leaving and 10:00am on the 4th a Drill Site Operator (DSO) opened the lateral line valve. At approximately 10:00am on the 4th the DSO stopped by and checked the work area. At that time the DSO stated that he saw a drip coming from the flange. The DSO stated that he checked the flange and saw that the fluid was coming from the top area of the ring joint gasket. He placed a drip liner under the drip and went to get some tools and assistance. Upon returning the flange bolts were re-tightened and the drip stopped. The DSO then reported the incident. Samples of the released fluid were taken to the lab for analysis and the fluid was determined to be seawater. Approximately 1/2 gallon was released to the ground surface. At no time was the released fluid in danger of reaching the tundra, and there were no injuries associated with this event.	Material was shoveled in to oily waste bags.	Material will be brought to G&I for disposal.	Note:There has been a product change.
3/11/03	2003-IR-456757	L-4, GPB, L4, 4904 Northwest corner of module	Sewage	0.50	Sewage was noted dripping from the sewage line @ L4. Cycled the valve and was able to stop the drips. Placed a camlok cap on the connection to ensure leak stopped.	Recovered material with hand tools and placed into container for disposal at T-pad.	Material taken to T-pad.	Initial notification made on 3/12/03
7/14/04	2004-IR-976266	Lisburne Production Center, LPC Module 4921 Corrosion Inhibitor Skid, GPMA	Corrosion Inhibitor	0.50	LPC Facility Operator was making his rounds in his assigned area (Oil Section) and got a whif of chemical immenating within the 4921 Module. Upon investigation, noticed corrosion inhibitor (NALCO 01VD120) spraying from the discharge side of the CI Injection pump. Operator was able to secure the pump and exited module. No other personnel were working within the Module. Facility wide announcement was made to avoid entrance into the module. 5700 was called for response to spill. All access doors to module were flagged with "Do Not Enter". MSDS sheets were reviewed. SRT requested Emergency Services Chief to investigate. After discussions with Chief, nature of the chemical and lacking appropriate PPE required, Facility requested Haz Mat Crew to respond for clean up. Haz Mat Crew proceeded to clean up using water and absorbant pads (note - corrosion inhibitor is water soluble). HM Crew turned over to Operations for further investigation of failure.	Sorbent was used to remove fluid from Mod. floor.	Oily waste stream.	Notifications were made to agencies.
4/2/05	2005-IR-1306535	South Hangar, On the east side of south hanger building, on snow ramp, Non Process Area	Hydraulic Fluid	0.50	Employee was removing snow with the #40121 case loader behind the south hanger at 5:40 PM. He released a shovel of snow on an incline, and during the backing process noticed a thin line of fluid. He immediately stopped and placed a dike under the front and rear of the loader. Upon inspection, he determined that the seal on the baldersen pin had blown out. He notified dispatch at 5:45 PM. Notifications were made and SRT began to clean up about 6:15 PM. Approximately two quarts of hydraulic fluid spilled in a thin line about 216 feet long on the top of approximately 10 feet of snow over tundra. By 6:45 the spill was cleaned up except for a small line under the loader. The rest of the spill was cleaned shortly after when they were able to move the loader. A mechanic was notified to fix the loader.	Material was shoveled up and bagged.	Contaminated snow will be stored in the permitted, lined T-pad pit for future injection in the Pad 3 waste injection facility.	Immediate notifications were made.
4/25/05	2005-IR-1343018	Niakuk, Niakuk well 65, GPMA	Methanol	0.50	Coil tubing unit employees on NK65 found what appeared to be 2 separate spots where a small amount of methanol was spilled on the pad. They contacted drill site operator who dug out contaminated snow, bagged it, reported it and SRT techs confirmed the substance was methanol. It is assumed that the spots resulted from the rig down of a hardline following the job completed prior to the CTU RU.	Hand tools were used to remove the contaminated snow.	contaminated snow will be melted down and reused for freeze protection.	Immediate notifications were made.
5/23/07	2007-IR-2276217	Well Pad S, S-pad well 42 well house	Methanol	0.50	While operator was performing daily HSE checks he discovered a leaky fitting on the s-riser p-pilot.	A super sucker was used to recover the contaminated gravel around the well.	Contaminated gravel was taken to G&I for class 2 disposal.	Immediate notifications were made.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
8/10/07	2007-IR-2370829	Drill Site 05, DS 05-28b, FS1/SIP/STP	Sewage	0.50	At approximately 3:00pm on August 11, 2007, and during a routine walk around, a rig hand noticed a small leak coming from the underside of the company man¿s mobile office which is located next to the Nordic II rig on DS 5-28b. The source of the leak was coming out of the secondary containment on the sewage holding tank (double hulled). Approximately ½ gallon of ¿fluid¿ was on the ground before a kitty pool could be put into place. A call was made to 5700 to start the initial reporting process. I was instructed by SRT to clean up the ¿fluid stain¿ on the ground and place the ¿material¿ into an oily waste bag that would be picked up by SRT. A sample of the ¿fluid¿ was taken to Arctic Labs in deadhorse to be tested for coli form & e-coli. A sewer truck was called out to empty the tank, signs were posted around the office instructing everyone not to use the restroom. Results that were issued on August 13, 2007 at 7:00am confirmed the presence of bacteria, which is indicative of a hole in the sewage holding tank. At this time, the age of the holding tank is unknown as is the origin of the hole in the tank. Today we will begin the process of fixing the holding tank.	Hand tools were used to cleaned up contaminated gravel.	Contaminated gravel will be brought to Pad 3 for disposal.	Agencies were notified of release.
11/24/06	2006-IR-2071316	Pad 10, Module 4931, Pad 10, Methanol Loading Area, Non Process Area	Methanol	0.50	Employee was prepariing to load methanol at Pad 10 Methanol Loading Area using 3 inch hose when he observed a small amount of methanol seeping out around the threads on a 2 inch hose dry lock fitting. Employee notified foreman and SRT	Hand tool's were used to remove contaminated snow.	Contaminated snow will be used for benificial reuse.	Agencies were notified of release.
11/16/04	2004-IR-1129634	Drill Site 14, Ds 14 manifold building, FS3	Corrosion Inhibitor	0.50	Upon checking the manifold building, I discovered a small pin hole leak in the head of the corrosion inhibitor pump.	Put absorb on the spilled corrosion inhibitor. Then put absorb in oily waste bag for disposal.	Contaminated sorbents will disposed as oily waste.	Immediate notifications were made.
10/2/07	2007-IR-2427996	Main Construction Camp (MCC), Rear parking area at MCC. Adjacent to Wing 8., Non Process Area	Motor Oil	0.50	At 21:35 a call was made to emergency services advising of a truck on fire in the rear parking lot of MCC. Security arrived on the scene and staged fire extinguishers, then waited for the PBFD. Near by trucks were moved by a bystander, but no attempts were made to extinguish the fire. The PBFD responded and reported that the fire was ¿under control¿ at 21:49. Requests were made by the Chief for an electrician and SRT. The PBFD Chiefs returned to their quarters at 22:25. The truck was left on the scene. The cause of the fire is unknown.	Acid was neturalized, and all engine fluid's were scraped up with a loader. and dump box.	Matreial was brouthg to pad 3 for disposal.	Agencies were notified of release.
10/2/07	2007-IR-2427996	Main Construction Camp (MCC), Rear parking area at MCC. Adjacent to Wing 8., Non Process Area	Sulfuric Acid	0.50	At 21:35 a call was made to emergency services advising of a truck on fire in the rear parking lot of MCC. Security arrived on the scene and staged fire extinguishers, then waited for the PBFD. Near by trucks were moved by a bystander, but no attempts were made to extinguish the fire. The PBFD responded and reported that the fire was ¿under control¿ at 21:49. Requests were made by the Chief for an electrician and SRT. The PBFD Chiefs returned to their quarters at 22:25. The truck was left on the scene. The cause of the fire is unknown.	Acid was neturalized, and all engine fluid's were scraped up with a loader. and dump box.	Matreial was brouthg to pad 3 for disposal.	Agencies were notified of release.
4/24/05	2005-IR-1336407	Drill Site 17, DS17-14 Chemical SKOFLO valve, FS2/COTU	Corrosion Inhibitor	0.50	DS17 well 14 had a partially plugged and frozen chemical tubing line through most of the winter. Due to warmer temperatures the chemical operator was preparing to corrrect the problem when he noticed chemical spray in the vicinity of the skoflo valve. Further investigation revealed that during the time that the valve was frozen, internal expansion caused the base plate seal to fail.	Hand tools and sorbet was used to remove contaminated material.	Material was brought to T pad for disposal.	Agencies were notified of release.
5/6/04	2004-IR-894499	Drill Site 03, DS-3, FS2/COTU	Corrosion Inhibitor	0.50	As the delivery driver was doing his pre-job walkaround at DS-3 prior to rigging up he noticed some chemical coloration on the snow on the Dempster tank. Looking further he found a small amount on the ground. He later determined that it had leaked out of the auto vent. It was later determined by a mechanic that the vent was "stuck" open due to gumming and cold weather.	Contaminated snow was recovered using a bobcat and placed into a dump box for disposal.	Material was taken to T-pad for disposal.	Immediate notifications were made.
4/6/02	2002-IR-197799	Drill Site 13, Drill site 13 module	Corrosion Inhibitor	0.50	Corrosion inhibitor leaked from fill line during tank filling operation. Line either corroded or screwed fitting is loose. Unable to access fitting until scaffold is errected. Will be repaired before next corrosion inhibitor delivery.	Material recovered with hand tools and placed into appropriate container for disposal.	Material disposed of as hazwaste.	Initial report submitted on 4/7/02
1/5/05	2005-IR-1197798	Drill Site 12, Corrosion Inhibitor tubing at DS12 well 36 (inside wellhouse), FS1/SIP/STP	Corrosion Inhibitor	0.50	At 3:30 PM the drillsite 12 operator identified a smell of corrosion inhibitor from the chemical injection system inside the wellhouse at well number 36. The chemical operator was notified and after a time, found a fine mist of chemical. The source point of the mist was not immediately identified. The chemical supply to the well was shut in. SRT was notified. The tubing is being inspected for failure analysis.	Initially the mist on the wellhead was warmed using hot water and a mild solvent and then wiped clean using sorbent cloths. A heater was placed in the wellhouse to help identify any further areas to be wiped down. No material was identified on the wellhouse walls or gravel floor.	Used Sorbent went to oily waste.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/26/05	2005-IR-1262446	L-1, L1 module 4901 sewage tank unloading station, GPMA	Sewage	0.50	The holding tank outlet valve leaked into the containment box and out on to the snow/ice below. The tank was emptied and securely closed. It hasn't leaked any more since.	Gray water/ice was chipped up and bagged. The bag was dropped off at the SRT office for disposal.	Material weill be taken to T-Pad for disposal.	Area will be limed in the spring.
3/27/02	2002-IR-192187	Drill Site 17, Drill Site 17-01 into tree dike containment	Methanol	0.50	Schlumberger Coil Tubing Unit # 5 was located on DS 17- 01 preparing for a Scale Mill job @ ~ 14:00 on 3/27/03. During pressure testing sequence there was a 1/2 gallon mehanol release into total secondary containment. The packoff pressure was applied at 1000 #s during this operation. Wellhead pressure was ~ 100 pounds when the crew noticed that methanol was running from the injector sump and down the well head. Pumping was ceased imeadiately and the crew checked the injector drain hose for returns. The drain hose was found to be clear and the injector sump was drained of remaining methanol. Inspection of the release area found that the material had run down the wellhead and all of the methanol was caught in secondary containment. SRT was called as well as notifications to Manager and HSE. Crew wiped up methanol from secondary containment with absorbent and placed into a oily waste bag for SRT. The injector was brought back to the deck of the coil tubing unit and the stuffing box was disassembled for inspection. It was found that the packoff inside the stuffing box was damaged in such a way that it was not sealing around the coil tubing during pressure test and the injector sump was over filled. Crew installed a new packoff element, rigged injector back to well head, preformed a new pressure test with no problems and proceeded with mill job.	Recovered material with absorbents from secondary containment. Small amount of snow melted and benefically reused.	Absorbents disposed of as hazwaste. Snow was melted and beneficially reused.	Initial report submitted 3/27/02
3/4/03	2003-IR-450401	PM-2, to the side of well P2-17	Methanol/ Water	0.50	CTU was rigging back off P2-17 to disconnect mill and moter. The tool rep. hand turned the bit box with a wrench to release any stored or trapped pressure, allowing fluid to drain into a 5 gallon bucket on the back working deck. Thinking it was drained and bled off, since no more fluid was exiting, the tool conection was loosened from a taller working platform aprox. 8' off the back deck. Once the connection was loose and being backed off, fluid started to spray out of the connection. The connection was above the wind curtains and the wind blew 60/40 meth. onto the wellhouse and snow covered pad. SRT was notified and called it .25 gal on wellhouse and .25 gal. on the snow.	Recovered material with absorbents and hand tools.	1 cubic yard of material taken to G&I for disposal.	Initially reported on 3/4/03.
12/29/04	2004-IR-1187858	C Pad, C-Pad Chemical dock, Non Process Area	Methanol	0.50	This afternoon at approximately 12:15 a small amount of methanol escaped from a poorly fitting hose cap. The hose is used on the loading of the tanker in Fairbanks, however the hose was jostled when the off loading hose was used. During the process of separating the two hoses in the stack the end of the loading hose dropped below the rest of the hose and a small amount of methanol ran from the hose. The truck had been on C-pad for at least eight hours before the off loading was started. The area where the unit was parked was examined and no sign of contamination was found. The Alaska West Driver made proper notification and agreed to replace the faulty cap and inspect all others on the unit. SRT was contacted	Hand tools were used to remove material.	Melted for benifical reuse.	Agencies were notified.
9/8/07	2007-IR-2400315	GC-2, Well R-09, GC2/SAT	Corrosion Inhibitor	0.50	While performing a well energy isolation, trapped pressure between the master, wing, and swab valve leaked by the swab and spilled corr. inhib. through the vent.	The contaminated gravel was shoveled into oily waste bags. The wellhead and affected wellhouse were wiped with rags. The affected cellar water was removed with the use of a Vac-truck.	The contaminated gravel was placed in an approved containment bin for disposal at GPB Pad 3. Soiled rags were taken in sealed oily waste bags to the solid waste facility and disposed of in the approved dumpster. The affected well cellar water was taken to pad 3 for disposal.	
1/3/04	2004-IR-733041	Well Pad J, J-2 Well House, GC2/SAT	Corrosion Inhibitor	0.50	Wing Valve stem seal leaked on well J-2. This is a long term shut-in well that has not been flowed in many months	All of the free standing liquid was removed from the top of the ice in the well cellar with absorbent pads. The top of the ice was scraped with ice chipping bars and placed into oily waste bags.	All of the contaminated ice will be taken to T-pad storage pit for disposal. All of the contaminated absorbent pads will be taken to an approved NSB oily waste dumpster.	
11/25/03	2003-IR-696389	Well Pad W, W-pad pigging skid	Desolvit	0.50	A half a gallon of Orange Sol was spilled to the ground when the container was tipped over after being left with its cap off	Shovels, and a broom was used to remove the material from the gravel and ice under the pigging module.	None the material was taken to the barrel crushing facility and use for intended purpose as cleaning agent in flushing barrels.	
3/31/06	2006-IR-1780672	Well Pad C, C-Pad Mod-58, GC3	Sewage	0.50	Pad Operator, during rounds, noticed that a spill had occured at the vac truck hook up at C Pad. Envirovac was inspected mechanically and found to operating as designed.	The contaminated material was cleaned up using hand tools and placed in bags for disposal transportation. The area was also disinfected with a bleach solution.	Material will be taken to T-Pad storage pit then will eventually end up at Pad-3 Injection Facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/15/01	2001-IR-95866	Well Pad F	Methanol	0.50	The APC Downhole crew was rigged up at F-Pad, skid 95, to freeze protect the F-48 flowline. The crew began to pressure test their surface piping prior to performing the freeze protect operation. During the pressure test, one of the crew members noticed methanol spraying from the 1 inch high pressure hose. The crew immediately shutdown the operation and contacted APC Safety. The BP Environmental Advisor was also dispatched to assess the spill. The investigation of the incident revealed that the 1 inch high pressure hose failed at the male threaded fitting where it screws into a hammer union. The hose was replaced and the operation was sucessfully completed. The spill has been estimated at 2 quarts of methanol, all of which was on the snow covered pad. The tundra was in no way affected. The contaminated snow was cleaned up and left with the environmental department.	The contaminated snow was shoveled into bags for recycle.	The material will be melted in a melt tank at the enviro shop and reused as freeze protect fluids.	
6/22/06	2006-IR-1877154	Drill Site 01, 01-23 wellhouse, FS1/SIP/STP	Crude Oil	0.50	During daily rounds Operator found dirty diesel dripping down tree, coming from swab cap on top of tree.	The well was wiped down with absorbents and the contaminated gravel in the well cellar was removed with a super sucker.	Contaminated gravel was taken to G&I for disposal and the aborbents were disposed as oily waste.	
6/22/06	2006-IR-1877154	Drill Site 01, 01-23 wellhouse, FS1/SIP/STP	Diesel	0.50	During daily rounds Operator found dirty diesel dripping down tree, coming from swab cap on top of tree.	The well was wiped down with absorbents and the contaminated gravel in the well cellar was removed with a super sucker.	Contaminated gravel was taken to G&I for disposal and the aborbents were disposed as oily waste.	
1/17/05	2005-IR-1211066	Well Pad V, V-pad ground surface, GC2/SAT	Methanol	0.50	Tie-in crew was working to break the line free from the lateral valve. Once the crew had this done they went to break the wing valve free from the tree. The pipe had been rigged up before the lines were broke and a vac truck was on stand by and used but no liquids were extracted. As the crane lifted the line up the lateral end came up about 12 feet, while the down comer was on the low side and bagged and taped to prevent liquids from escaping. The line was swung around to readjust the chokers; this caused slack in the chocker on the lateral end. The lateral rolled to the outside and with the down comer now higher, gravity caused a small amount of NEET to come out onto the pad.	The contaminated snow has been removed with hand tools and was placed in bags for transportation.	The contaminated snow will be melted down and reused on an approved freeze-protecition job.	
3/7/06	2006-IR-1751470	Pad 10, pad 10 methanol loading area, Non Process Area	Methanol	0.50	Employees were walking down the hose after transferring methanol. While stowing the hose the ear from the camlock caught on the edge of the vehicle causing it to open and spilling approximately 1/2 gallon of methanol.	Contaminaed snow was recovered with a shovel and placed in a drum.	Contaminated snow will be melted down and will be benificialy reused for freeze protection.	
7/13/02	2002-IR-264672	Well Pad K, Gravel Pad	Seawater	0.50	During routine coil tubing operations on CTU # 3, seawater had accumulated in the containment area of the filter skid. After the job was complete the filter skid was moved to the edge of the pad. As the skid was jacked up to disconnect from the pickup, the angle caused 1/2 gallon of fluid to escape containment to gravel pad. SRT / HSE was notified and gravel was shoveled up and bagged.	All of the contaminated gravel was shoveled into oily waste bags for disposal transportation.	Contaminated gravel was placed in oily waste bags and will be taken to T-Pad or Pad 3.	
12/3/03	2003-IR-700047	EWE Pipeline, In piperack between VSM Station 32330 and 32390 on the West side of the Kuparuk River.	Natural Gas Liquid (NGL)	0.50	The 10" MI Gas pipeline developed a leak west of the Kuparuk River between VSM Stations 82330 and 82390. Leak is at weld joint in mid-span between VSMs. Gas venting to atmosphere with a small amount of LPG hitting ground.	Contaminated snow has been removed from snow covered tundra with shovels and placed into oily waste bags for disposal transportation.	Contaminated snow has been taken to a class II dstorage facility at CC2-A	
1/6/06	2006-IR-1683233	GC-2 Gas Section, WOA, GC-2, outside skid 24., GC2/SAT	Sewage	0.50	While the operator was making his normal rounds he found the bathroom sink was running and started to overflow. The operator noticed that the holding tank pump was not running and didn¿t indicate a high level. The operator started the system pump and ½ gallon of sewage came out of the holding tank vent. During the investigation it was determined that the holding tank was full from the bathroom sink being left in the on position. The holding tank is designed with a high level alarm and a high level block that will shutdown the pump and not allow it to start until the holding tank fluids are removed. Both the high level alarm and high level block didn¿t function correctly.	The contaminated snow was removed with hand tools and the use of the sewage truck.	The recovered material was taken to the central sewage treatment facility.	
3/28/07	2007-IR-2211541	Well Pad H, H-35 well house gravel floor, GC2/SAT	Methanol	0.50	While performing daily HSE inspections the operator discovered a leaking fitting on the bottom of H-35 S-riser. He tightened the fitting, the leak stopped and reported the spill.	The contaminated gravel was removed using shovels and placed into oily waste bags for disposal transportation.	The contaminated gravel willl be taken to the Grind & Inject Facility.	
10/21/05	2005-IR-1587157	Drill Site 16, Drill Site 16, Well 12 - CIC Chemical injection test skid, FS2/COTU	Corrosion Inhibitor	0.50	After completion of a corrosion inhibitor test at DS16-12, a spill occurred while disconnecting the pump suction line from a chemical tote due to failure of the 2" valve a the tote outlet. Prior to disconnecting the 2" cam-lok securing the hose from the tote, the outlet valve was moved the "closed" position and head pressure from the tote was bled off through a low point drain. Upon disconnecting the hose, approx. 2 qts of corrosion inhibitor spilled from the leaking valve before the hose could quickly be reconnected. The entire quantity if the spill was collected in the secondary containment of the test skid.	Material was collected with absorbent pads from containment.	Contaminated rags and absorbent will be disposed as hazardous waste.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/31/04	2004-IR-921214	Well Pad W, W-Pad sk 501, GC2/SAT	Corrosion Inhibitor	0.50	Had a corrosion inhibitor leak out of the corrosion inhibitor pump in sk 501.	Sorbents and rags with cleaning solution were used to clean affected area in skid.	The sorbent material was taken to approved NSB oily waste dumpster.	
3/18/02	2002-IR-186494	EWE Pipeline, VSM 1557 on the EWE pipeline near the Kuparuk River crossing.	Methanol	0.50	Employee drained the brake drier on the crew bus on the ice road at VSM 1557 for the EWE pipeline project. The methanol from the brake drier sprayed onto the ice road.	Snow and ice removed and placed in plastic bags. Material turned over to ACS Tech for disposal.	The contaminated snow/methnol mixture will be melted and reused.	
2/28/03	2003-IR-447719	Seismic Off-Pad, GPS Coordinates: N 70 19.4727 W 148 48.2365	Motor Oil	0.50	While performing seismic operations off pad (South side of Spine road - West of Frontier corner), a 1/2 gallon motor oil leak occured from a off road vehicle. A by-pass hose was left in the engine drip containment pan and was kinked. The kink allowed pressure to build while the vehicle was parked. This caused the engine head gasket to fail due to pressure build up. GPS Coordinates: N 70 19.4727 W 148 48.2365	All of the contaminated snow and a small amount of tundra grass was removed with shovels. It was then placed in oily waste bags for transportation to dipsosal site.	All of the contaminated snow will be melted down and recycled.	
12/24/04	2004-IR-1182597	Flow Station 1, Flow 1 module 4907, FS1/SIP/STP	Silicon Defoamer	0.50	Upon completion of the chemical delivery, the driver noticed a small leak from his equipment. A faulty fitting connecting the pressure gauge had failed causing approximately 1/2 gallon of anti-foam to spill.	Material was recovered with hand tools an placed into oily waste bags for disposal.	Material will be melted down and sent to GC-2 for recycle.	
7/14/02	2002-IR-265103	Well Pad P, P-Pad	Seawater	0.50	A ball valve on a 400 bbl upright tank containing seawater leaked, spilling approximately 1/2 gallon onto the gravel pad. The tank had been filled prior to the start of the job and the valve was shut and capped. During the job, a service company rigged up to the valve but did not end up opening the valve and no fluids were pumped through it. Sometime after the service company rigged down, the capped valve was noticed to be leaking. A bucket was placed under the valve. The Spill Report Hot Line was called and Environmental set up cones around the spill site. The tank was drained and the spill will be cleaned up after the tank is removed.	All of the contaminated gravel has been removed from the gravel pad with shovels. The gravel was placed in oily waste bags for transportation to disposal facility.	Material will be taken to pad-3 or T-pad for disposal.	
8/22/03	2003-IR-600107	Well Pad B, B-12 chemical injection filter	Corrosion Inhibitor	0.50	The Pad operator noticed a small leak coming from a chemical injection line filter body. It was stopped and SRT was called to the scene. Approximately 1/2 gal leaked onto the tree and into the cellar. Cleanup was completed.	Shovels were used to remove contaminated gravel from cellar.	The material will be taken to pad 3 disposal facility.	
7/30/02	2002-IR-278124	West Gas Injection, West Gas Injection Pad	Diesel	0.50	When slop trailer was moved from one well to another the liquid spilled over the ends. The operator did not see that there was liquids in the containment tray prior to moving it. The trailer was at an angle such that the level in the front of the trailer were the operator was hooking up to the truck was empty but there was actual level in the tray toward the back.	Recovered material with Bobcat loader and placed into dump box for disposal at G&I.	2 cubic yards of material taken to G&I for disposal.	
7/30/02	2002-IR-278124	West Gas Injection, West Gas Injection Pad	Fresh Water	0.50	When slop trailer was moved from one well to another the liquid spilled over the ends. The operator did not see that there was liquids in the containment tray prior to moving it. The trailer was at an angle such that the level in the front of the trailer were the operator was hooking up to the truck was empty but there was actual level in the tray toward the back.	Recovered material with Bobcat loader and placed into dump box for disposal at G&I.	2 cubic yards of material taken to G&I for disposal.	
12/5/01	2001-IR-141320	Well Pad S, S-Pad Well 110	Corrosion Inhibitor	0.50	Corrosion inhibitor leaked from a 3/8" Swedge Lok fitting. The well's chemical system had been in service for several months and had been pumping at the same pressure during that time. The cap nut was tightened 1-1/4 rounds before correct torque was applied.	The contaminated gravel inside the well house was removed using hand tools. The contaminated gravel was then placed in oily waste bags for disposal transportation.	Material will be taken to Pad-3 disposal facility.	
3/23/05	2005-IR-1293097	Well Pad U, U-pad manifold building, GC2/SAT	Corrosion Inhibitor	0.50	Sometime this morning the U-Pad operator discovered corrosion inhibitor leaking from the head on the chemical injection pump. The area chemical operator was notified and discovered that the leak was caused by a pumphead failure.	Sorbent materials were used to wipe up the material.	The sorbents were taken to an oily waste dumpster.	
4/2/01	2001-IR-101153	Well Pad, Roads	Hydraulic Fluid	0.50	The hydraulic hose on the R-100 Ditch Witch trencher #600-957 failed while machine was digging a 4' trench approximately 1500 feet South of the Spine Road on the Borealis Project. Resulting in 2 quarts hydraulic oil spill to the ice road/tundra.	All of the contaminated snow and ice was cleaned up using hand tools and placed into bags for disposal.	Material was taken to Pad-3 disposal facility.	
3/22/03	2003-IR-464935	Seismic Off-Pad, N 70 12.75 W 148 37.69	Hydraulic Fluid	0.50	While performing off road seismic vibration operations a hydraulic leak was noticed on the move-up to next shot. GPS coordinates N 70 12.75 / W 148 37.69 The vibrator was shutdown for inspection, clean up and SRT notifications. The spill was determined to be due to a O-ring failure on a filter indicator. 2 Quarts of 0-30 hydraulic oil was released onto snow covered lake. Snow was shoveled into oily waste bags to be delivered to SRT.	Material recovered with hand tools and placed into oily waste bags.	Material will be taken to T-pad for disposal.	
4/8/03	2003-IR-480409	Central Checkpoint, Central Check Point GPB	Sewage	0.50	On 4/8/03 at about 2AM the Central Check point toilet began to make noises and smelling. A call was made for repair. No action was taken to repair the toilet immediately and at about 10:45AM the toilet began to back flow raw sewage onto the Check Point floor which leak through the floor onto the ground under the Check Point. Another request was made for immediate repair. A spill report was made and SRT called to respond for clean up.	Material was recoverd with hand tools and put into oily waste bags for disposal.	Material was taken to T-pad for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/17/03	2003-IR-623152	Drill Site 12, Drill Site 12 Manifold building	Corrosion Inhibitor	0.50	The vent line from the Chemical Continuous Injection system at Drill Site 12 had an old stainless steel vent line attached at a tee above the chemical tank. The old line was not properly supported, allowing the line to rub a small hole in the tubing. The backpressure regulator of the operating system relieves through its vent line in normal operation. After the tee to the old vent line there was a 1/2-3/8 reducer, which caused a restriction allowing some pressure to build up in the abandoned vent line, consequently leaking corrosion Inhibitor through the small hole in the tubing.	Sorbents were used to recover the fluids and the area was wiped down with soap and water.	Material will be disposed as oily waste.	
4/19/03	2003-IR-488548	Well Pad F, Cellar of F-45	Methanol/ Water	0.50	Coil Unit # 5 was rigging up on F-45 to perform a P & A job. After making up to the well head, a low/high pressure test of all equipment an lines were to be done. During the low pressure test there was a leak at the lubricator connection below the coil tubing injector head. The supervisor shut down pumping operations and leak was stopped. The fluid (60/40 methanol) ran down the tree into containment that was placed in the cellar. ~ 1/2 gallon of 60/40 methanol splashed to the gravel at the back of the cellar. All notifications were made to BP,SRT and Safety. It was determined that the cause of the leak was a pinched oring at the lubricator connection during rig up.	Contaminated gravel was shoveled into oily waste bags and tree and dikes were wiped with absorbent and also baged.	WOA SRT recalimed material for disposal	
5/30/07	2007-IR-2289083	PBOC, Ready rail at EOA fleet shop, Non Process Area	Sulfuric Acid	0.50	On the evening of 5/30/07 at approximately 11:30am an unknown employee notice a truck on the bullrail in front of the PBOC Fleet shop was on fire. He immediately reported this to employees at the fleet shop who notified 5300. The Fire Department responded and extinguished the fire. The Truck #15-085 was plug in at the time of incident and was not running, and had been there for approximately 2 weeks. It was determined that an electrical short probably in the electrical winterization system was the cause of the fire. SRT responded after the incident and cleaned up the contaminated gravel that was a result of the fire and disposed of the material in accordance with waste disposal guidelines.	Use heavy equipment to excavate contaminated gravel.	Pad 3 for storage pending remediation.	
6/28/03	2003-IR-552555	Well Pad S, Near S-pad well #S-2	Seawater	0.50	Crew was rigging down after a coil tubing perforating job on S-02. One 10 foot section of lubricator was disconnected and stored on the back deck. While rigging down the next lubricator section a parafin plug in the lubricator came free and released trapped fluid onto the back deck of CTU #5. All fluid was contained, but started to leak onto the ground from a small hole on the back deck plating. Small drips were noticed by the crew who placed a small spill dike down to contain the leak. All notifications were made and SRT estimated the spill to be 1/5 gallon of KCL.	Recovered material with hand tools and placed into container for disposal.	Material taken to Pad 3 for disposal.	
11/1/04	2004-IR-1119513	Drill Site 15, Directly behind the 2801 skid at DS15. Specific location was behind well 19, FS3	Methanol	0.50	DS Operators were pumping methanol into frozen dirty gas lift line. During the job, the hose connection was found loose and caused a loss of methanol into spill dike. The containment dike had 1/2 gallon estamated volumn of methanol. The methanol was recovered and put back into methanol tank and reused. Spill was called in and SRT was notified.	Methonal was recovered and reused in pumping operations	Reused methonal in pumping operations	
6/2/07	2007-IR-2283946	Drill Site 09, DS 9 well 13, FS2/COTU	Corrosion Inhibitor	0.50	DS 9 well 13: sko-flow valve used to set chemical inj. rate seal failed	Material was picked up with absorbent pads.	Sorbents sent to oily waste.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/3/04	2004-IR-1075411	Drill Site 16, Drill Site 16, FS2/COTU	Produced Water	0.50	On 10/3/04 at approximately 12:00pm ½ gallon of 95% water and 5% crude oil were released to ground surface at Drill site 16 from a 3¿ vac hose. Earlier that morning a Vac truck was dispatched to assist with final clean out of a Methanol tank on Drill Site 16. Little Red Services was also dispatched to assist with clean out. Little Red pump unit stopped off at Hot Water Plant and loaded 60bbls of fresh hot water for clean up work. After setting up at Drill site 16 hot water was pumped into methanol tank for cleaning and then sucked up by Vac truck. After pumping approximately 30bbls of hot water into methanol tank for cleaning it was determined that tank was clean and no more water was needed. Vac truck sucked out 30bbls from methanol tank and then operator of Little Red truck asked Vac truck driver if he could suck rest of fresh water out of his holding tanks. driver said that would be fine. A 3¿ vac hose was connected to Little Red unit and Vac truck driver asked about a bleed point so when he finished sucking out tanks he could clear his line before disconnecting. operator of Little Red unit said that he would get air when tank was empty as tank was vented to atmosphere. Vac truck driver then opened his load line valve and began to suck water off Little Red unit. When hose began to jump it was an indication that Vac truck was beginning to suck air so Vac truck operator continued with Vac for another 2-4 minutes. He checked his load level indicator and it showed 60bbls and Little Red operator said that his tank was empty and he closed valve to tanks in his unit. Since vac truck could no longer pull a vac with valves in Little Red unit closed vac truck operator closed his load line valve. 3¿ vac hose was then uncoupled from Little Red unit, and as hose was pulled off connection a small amount of fluid came out of line in Little Red unit. This fluid was caught in containment in Little Red unit. When this happened, Vac truck driver dropped end of 3¿ vac hose and approximately ½ gallon of dark fluid was discharged from end of hose onto ground surface under Little Red unit. incident was immediately reported and all proper notifications were made. released material was shoveled into an oily waste bag and SRT picked up material for proper disposal. After event a conversation was had with Little Red Safety representative about fact that there was crude oil in what was suppose to have been fresh water. Safety rep stated that there was always a crude oil cap on fluids in their truck, or residuals from whatever tank last held. This information was not given to Vac truck driver prior to him sucking remaining fluids off Little Red unit. vac truck driver was under impression from what Little Red operator told him that it was fresh water that they had picked up at Hot Water Plant. FINDINGS: It was noted that Vac truck driver did communicate with operator of Little Red unit prior to connecting to truck, although no mention was made of fact that there would be any contaminate in fluids remaining in Little Red tanks. Spill containment dikes were placed under connection points, but when Vac truck operator dropped 3¿ vac line open end landed outside containment. disposal manifest for fluids described waste material as 100% rinsate with a trace of methanol and there was no mention of trace of crude oil as generator was also not aware that there were residual contaminates in Little Red tanks. GENERAL INFORMATION: 60bbls of fluid on Vac truck were injected at Pad-3 as class 1 non-hazardous non-exempt fluid with a P-9 waste stream code.	Material was shoveled into oily waste bag for disposal.	G&I	
4/26/03	2003-IR-494299	Drill Site 04, WING FLANGE ON 4-17	Seawater	0.50	WL SI WING AND SMALL LEAK OCCURED AT WING FLANGE.	SRT NOTIFIED		
9/25/97	1997-IR-89341	Well Pad P	Corrosion Inhibitor	0.50			The affected gravel was flushed with water to recover the product. The recovered product was reused. Non-hazardous gravel was taken to ARCO Pad 3.	While pressure testing the corrosion inhibitor tubing on P-pad a leak was found in the Nupro 3H2 90 micron filter in well 26. The fitting leaked from the small weep hole spraying onto pad gravel in the well house. The leak was quickly detected and the v
5/19/98	1998-IR-90034		Drilling Mud	0.50	Motorman was making a connection. While preparing to make the connection the upper kelly cock was closed before the #3 pump was shut down. The pop-off valve opened relieving pressure and discharging drilling mud to the injection tank. The pressure relief line had not been clamped down while rigging up and went unnoticed. When pressure hit the line it must have flexed and some of the mud missed the hole in the top off the tank and splashed onto the rig and pad. Lesson Learned: Insure lines connected with PRV's are secured to prevent movement during operation of PRV.		RCRA-exempt Class 2 material was taken to the CC2 Ball Mill for disposal.	Motorman was making a connection. While preparing to make the connection the upper kelly cock was closed before the #3 pump was shut down. The pop-off valve opened relieving pressure and discharging drilling mud to the injection tank. The pressure relief

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/15/94	1994-IR-88239	Well Pad X	Crude Oil	0.50	While bleeding tubing into portable bleed tank the amount of volume of gas being bled caused gas to vent out the top hatch of tank at such a rate to carry oil mist from residue oil left in tank. The tank was empty of volume at time and the connections made between well & tank were correct and proper.		Contaminants were taken to ARCO Pad 3.	During bleeding of tubing into an empty bleed tank stationed behind the well house, gas vented into the tank came out the top hatch cover and carried residue oil from the tank interior onto the snow on the west end of the tank.
10/2/93	1993-IR-86700	Well Pad H	Crude Oil	0.50	In an attempt to vent gas, an air actuated valve was stuck closed. When the vent was opened, it opened abruptly all at once rather than gradually, as it should, causing a crude residue to spray out onto the pad. The contaminated gravel was scraped up with a bucket loader and taken to Arco Pad 3. The crew involved was counseled on valve operation and safe practices.		The contaminated gravel was taken to Arco Pad 3.	In an attempt to vent gas, an air actuated valve was stuck closed. When the vent was opened, it opened abruptly and all at once, rather than gradually, as it should, causing a crude residue to spray out onto the pad.
9/26/93	1993-IR-86699	Well Pad Z	Diesel	0.50	A Lisburne diesel generator started leaking oil which was vented out of the crank case onto the trailer floor. It seeped out a hole in the floor onto the ground. Sorbents were used to soak up the pooled oil and to clean the trailer deck. A 966 loader was used to remove the contaminated gravel. Sorbents were placed in the NSB Dumpster for incineration. Contaminated gravel was disposed of at the ARco Pad 3 oily waste pit. The generator was repaired on location.		Sorbents were placed in the NSB Dumpster for incineration. Contaminated gravel was disposed of at the Arco Pad 3 oily waste pit.	A Lisburne diesel generator started leaking oil which was vented out of the crank case onto the trailer floor. It seeped out of a hole in the floor onto the ground.
1/30/97	1997-IR-89751	Well Pad Z	Corrosion Inhibitor	0.50	Production Operator contacted Chemical Operator to report a leak on Z-5 chemical injection panel. When the Chemical Operator arrived on site, he isolated the corrosion inhibitor and investigated the source of the leak. It was determined that the leak was the result of a loose tubing fitting. This particular continuous injection system had been tied into the wellhead companion flange on January 28, 1997, and then put into service. The Chemical Operator tightened the loose fitting and put the chemical system back on line. The environmental department was contacted and the spill was cleaned up.		The affected gravel will be shipped off site as hazardous waste.	Approximately .5 gallons of corrosion inhibitor leaked from a fitting on the corrosion inhibitor panel inside Well House Z-5. The cause was a leaking "O" ring.
2/9/93	1993-IR-86646	Well Pad, Roads	Lube Oil	0.50	The ice road gave way causing a truck to tip over. Diesel and oil spilled from tank onto snow and ice beside road. All visible contaminants were picked up with a loader and shovels. Contaminated snow was loaded into a dump truck and bags for removal from the site to A3W2.		Contaminated ice and snow to be melted at A3W2.	The ice road gave way, causing truck to tip over. Diesel and oil spilled from tanks onto snow and ice beside road.
1/11/98	1998-IR-90369	Niakuk Pad	Methanol	0.50	environmental dept.		Material was placed back in freeze protection system.	Drain valve seal on 4902 process manifold module failed during freeze protection operation.
3/16/95	1995-IR-87069	Spine Road	Lube Oil	0.50	Nowcam nitrogen pump truck was being driven from Deadhorse to Well Pad Z, when a rod from the engine penetrated the engine block, causing a spill of 0.5 gallon of motor oil and 2 gallons of MEG (antifreeze). Note that engine just had several thousand dollars of repair, including tune-up and valve adjustment. Spill was cleaned up by Environmental Department personnel.		Contaminated snow, ice & gravel was taken to the T Pad disposal pit. The fluids will go to Pad 3 after melting in the spring.	Engine failure. A piston separated and drove a hole through the block on a Nowcam unit.
11/21/99	1999-IR-94410	Well Pad S	Methanol	0.50	In the process of off loading 50/50 meth./water in the storage tank the pump seal failed. Driver noticed the drip and immediately set a drip pan under the leak.		Material was taken to BP Waste Cordinator for disposal.	Truck was taken in and repairs have been made.
2/5/99	1999-IR-93436	Kuparuk River	MEG	0.50	Peak mechanic truck # K-39 leaked approximately one half gallon of glycol in the snow on the Kuparuk River. The truck had a liner under it, but the glycol missed the liner and hit the snow. Note: Construction crew erecting the new Kuparuk bridges.		The material was taken to Peak base and recycled.	This is the Final Report.
5/4/00	2000-IR-94938	Well Pad K	Methanol	0.50	On Thursday, May 4 at approximately 11:00 AM, a small (less than 1 gallon) methanol spill occurred during coiled tubing operations at BPX well K-1. The spill resulted when a Weatherford rupture disk, being used in conjunction with fishing operations, failed during a pre-run-in pressure test. This type of disk is set to release at 5000 psi and is bench-tested to 4000 psi. In this incident, the disk ruptured at 3200 psi.	Shoveled into a bag.	Melted for reuse in freeze protect project.	N/A
5/5/00	2000-IR-94948	Well Pad N	Corrosion Inhibitor	0.50	A small quantity of corrosion inhibitor leaked from the " Skoflow " control valve. The chemical was contained in the gravel and then removed.	Shoveled by hand and bagged.	Taken to Phillips Pad 3	N/A
5/7/00	2000-IR-94949	Well Pad N	Corrosion Inhibitor	0.50	A very small amount of corrosion inhibitor was found on the gravel under a truck connection at skid N-54. The anount was estimated to be less than 1/2 pint. It is not known when this small amount dripped out. The fitting / truck connection is not leaking now.	Hand shoveled and bagged.	Taken to Phillips pad 3	N/A
11/24/00	2000-IR-95605	Well Pad E	Corrosion Inhibitor	0.50	The pad operator discovered a fitting that was leaking corrosion inhibitor at E-Pad, well #39. The Chemcial Department was notified and investigated the source of the leak. It was determined that someone had inadvertantly placed the chemical injection system into the test mode instead of the injection mode. This allowed the test leg to pressure up and the protective cap seal began to leak. The Environmental Department was notified of the leak and estimated the fluids spilled at approximately 1/2 gallon. The contaminated gravel was cleaned up and taken to Pad 3 for disposal.	Hand tools were used to collect contaminated gravel.	The gravel was taken to Santa Fe accumulation bins for disposal at pad 3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/12/00	2000-IR-94745	Well Pad N	Corrosion Inhibitor	0.50	Per pad operator : While freeze protecting N-18 well, HB&R noticed chemical running out of the flow valve (small 3 way valve , commonly called by brand name Skoflow valve, in the wellhouse. They put down a liner to catch the chemical, and called me. I closed the flow valve all the way (the chemical had been shut in with the well) because the chemical "lateral" is buried by 6 feet of snow. This appeared to stop the leak. I then called environmental and left a message. Chemical crew notified to replace / repair prior to putting back in service. Aprox 2 quarts of coorosion inhibitor spilled into unlined areas and was cleaned up.	Contaminated gravel was cleaned up using hand tools.	Material will be taken to Arco Pad 3	
4/22/99	1999-IR-93852	Well Pad X	Corrosion Inhibitor	0.50	The chemical delivery operator and chemical operators were offloading chemicals at the X-Pad chemical tanks when a hose ruptured between the PTO and chemical tanks of the chemical delivery tanker. The crews had already filled one of the chemcial tanks and had rigged up to fill the second tank. As soon as the pump was engaged the crew heard a loud pop and immediately shutdown the pumping process. There was a spill containment dike in place which captured the majority of the corrosion inhibitor, however a small amount (< 1 gallon) of fluid fell on the snow covered pad when it dripped from the undercarriage of the tractor. The crews immediately notified the Chemical Foreman and APC Safety of the incident. APC Safety notified the BPX Environmental Department of the incident. They then began the clean-up activity and properly disposed of the contaminated snow.		Pad 3	
3/12/05	2005-IR-1279386	Well Pad X, Pipe rack X-Pad into snow., GC3	Corrosion Inhibitor	0.40	Crew was at X-Ray pad in the pipe rack Reinstalling a ½ inch chemical trunk line, while strapping it down they came too a tie in point and found a ½ inch quarter turn valve was leaking, crew got a bucket to contain the leak, lead made the proper notifications and line was shut in. The valve at the tie in point was leaking through the packing around the handle. Upon investigation from lead, he found the valve to be the wrong one, not rated for this application. The crew cleaned up release as directed by SRT and changed out the valve. Volume was estimated at 1 Cup. Materials and absorbent were picked up by SRT WOA.	Snow was shoveled up and put into oily waste bags, and dropped off to SRT WOA.	SRT WOA	
6/27/01	2001-IR-101717	Drill Site 16	Motor Oil	0.38	Operator discovered oil leaking from pump due to seal failure. Operator shutdown pump and notified dewatering crew. Oil had leaked from the liner beneath pump and into adjacent impoundment due to water from pump overfilling liner.	Recovered product with hand tools and absorbents.	1 cu yd of lightly contaminated gravel taken to pad 3 for disposal. Absorbents disposed of in oily waste dumpster.	This information is being provided to ADEC per 18 AAC 75.300
2/12/07	2007-IR-2154528	L-3, L-3 Sout side of pad, GPMA	Motor Oil	0.37	On the morning of 12 February 2007, at approximately 8:00 am, an ASRC Employee was at L-3 looking for spilled diesel for another, unrelated incident within the ASRC organization. The employee was looking at BP Dozer 56-307, and noticed that there was engine oil released from the unit. Closer inspection showed that oil had released into the drip pan in the engine compartment, and the oil filler cap was missing. There was about 1 quart of oil in the containment, and 1 pint on the snow. The oil in the snow was in the snow pit, over the tundra. The due to the location of the release, over the tundra, the release is classified as a Spill.	Hand tools were used to recover the small drops of oil on the snow pile. The contaminated snow was put in oily waste bags.	The contaminated snow will be taken to T-pad for storage and future class 1 disposal.	NRC Notification was made 9:40 am 2/12/07
12/30/00	2000-IR-95810	Bulk Chemical Building	Corrosion Inhibitor	0.35	An IMO tank containing chemical was brought on site to off-load into a stationary tank. The site was properly prepared for off-loading. The stationary tank has a 2 inch hose/camlok which was connected to a 2 to 3 inch transitional camlok fitting for connection to the IMO tank. As offloading commenced a slight leak developed on the 3 inch camlok fitting on the IMO. The IMO tank valve was closed immediately. The off-loading pump was activated to clear the hose of residual chemical. It was discovered that the hose had an airlock that did not clear all of the chemical. The driver opened an ear on the camlok with the intent to shim the camlok and stop the slight leak. As the camlok ear was opened the chemical leak was sprayed into his eyes and approximately 2 gallons of chemical spilled to the ground outside of the 4 X 5 containment device. The Chemical storage pad attendent immediately escorted the driver to the eyewash station and flushed the eyes for 15 minutes. The driver was taken to the WOA and the medic flushed his eyes. The driver was released to full duty. The wind was blowing at approximately 25 knots at the time of incident.	Contaminated snow on gravel pad was shoveled into bags using hand tools.	Material was melted down and will be reused on well job.	
4/24/05	2005-IR-1337729	Well Pad Z, Z-08 well house. 1/2" hose on I/A, GC2/SAT	Methanol	0.26	While starting up an acid flowback a leak occured on a 1/2" hose tied into the I/A of Z-08. The hose was for meoh injection. The hose was brand new and had never been in service. It was pressure tested successfully to 2000 psi, then 1 bbl. meoh was pumped through it with no leaks. At 20:45 operator started to pump 1/2 bbl. meoh down I/A. The assistant was in the well house. He called the operator on the radio and told him to shut down pump because the hose was leaking. The operator shut down the pump and went out to Z-08 well house to check out the situation. The operator said it looked like the hose had failed at the hose to jic connection.	Sorbent material was used to wipe affected area in Well house.	The sorbent material was taken to the GPB waste coordinator for proper disposal.	The verbal notification was called in on 4/24/05 at 9:25 pm

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/21/06	2006-IR-1912843	Well Pad Z, Z-19, GC2/SAT	Crude Oil	0.26	Coil tubing unit was on the well preparing it for the drilling rig. CTU company representative went outside at approx. 0700 and discovered a good deal of standing water covered by a dark sheen. It had rained hard all night and this is where the excessive water came from. The company rep immediately reported what he had found to 5700. The product discovered was not consistent with any product used by the coil unit over the course of the night. The CTU was throughly inspected and no avenue for a release could be located. It is inconclusive as to the source of the sheen.	The sheen on the pad was recovered using absorbent pads. The gravel area with oil droplets were shoveled into bags for disposal. The sheen on the tundra pond was recovered using absorbent pads and absorbent boom.	Contaminated absorbent pads have been taken to an approved NSB Oily waste dumpster. Contaminated gravel will be taken to DS-4 Grind & Inject facility.	
11/10/04	2004-IR-1124359	Drill Site 06, Drill site 6 well 17 in celler, FS3	Corrosion Inhibitor	0.25	An E-line crew had just completed a leak detect log and was in the process of rigging down. They had secured the tree cap, closed the swab valve, surface safety valve, and wing valve. They were in the process of hoisting the lubricator and BOP assembly (approximately 3000# and 45 feet long) out of the well house to lay down for disassembly. The assembly was approximately 20 to 25 feet in the air when the winch slipped, free spooling and allowing the assembly to fall back into the well house striking the well house and wellhead. The crew immediately shut down the equipment and assembled at the muster area. All personnel were accounted for and there where no injuries. They then began their notifications of the incident.Upon inspection of the scene the chemical injection line was noted to be broken off the well and there also appeared to be damage to the tree cap.	The well head was wiped down with sorbents and the contaminated gravel was recovered using a super sucker.	Contaminated gravel was taken to Pad 3 for disposal remediation and final re-use or disposal.	At the time of the event, crews were unable to enter the well house because of the unsafe situation. Once the lubricator was removed from the well house and the site was secured, the crew identified that there was a spill and immediate notifications were made. Additionally, following the initial release and clean up, ADEC was notified that final clean up would not be completed until clean up crews were able to gain access to the site. Access is expected for clean up in spring 2005. Please leave this release report open until final clean up.
7/5/03	2003-IR-559566	U-11 (EOA Building), MCC Wash Rack	Propylene Glycol	0.25	Some antifreeze (propylene glycol) that had been washed off a vehicle, mixed with some stormwater and ran off the pad.	Gravel pad was flushed with water and recovered with a vac truck. The area in the tundra was picked up with sorbents and a vac truck	Recovered fluid were taken to Pad 3 for disposal	This is a storm water spill, reportable under NPDES General Permit AK-R-00-A080/A23. A copy of this spill report, including a description of corrective actions, has been filed in the facilitie's Storm Water Pollution Prevention Plan. NOTE: This is the Final Report.
2/15/05	2005-IR-1246866	Flow Station 2, 4912-fs2, FS2/COTU	Corrosion Inhibitor	0.25	while offloading some chemical,it over flowed a minute amount	contaminated snow was removed was removed with hand tools.	Material was brought to T Pad for disposal.	All agencies were notified of release. NOTE: Samples were not taken because of the large amount of snow generated, and small amount Corrosion Inhibitor, it was decided by the Hazwaste coordinator that this material could go to Tpad for disposal.
11/22/01	2001-IR-136884	PM-2, P2-17 well house	Methanol	0.25	After freeze protecting flow line, operator found stem packing leaking on lpp root valve. Operator tightened packing and stopped leak.	Recovered product with hand tools and placed into oily waste bags for disposal @ G&I.	1 cu. yrd of material taken to G&I for disposal.	This incident was verbally reported to Alaska State Trooper and Alaska Department of Natural Resources at 18:20 P.M. on 11/23/01by Todd McGovern.
8/28/94	1994-IR-98370	Spine Road	Sulfuric Acid	0.25	A battery from a pump fell off the back of a pickup while pump was being transported. Battery acid leaked from the battery onto the gravel road.	"Shovels and loader were used to scrape up contaminated gravel. - Contaminated gravel was taken to Hazardous Waste Processing Module at C Pad for testing on 8/29/94. Testing was complete, material found to be non hazardous, and gravel was taken to Pad 3		A battery from a pump fell off the back of a pickup while pump was being transported. Battery acid leaked from the battery onto the gravel road.
2/26/07	2007-IR-2167894	EWE Pipeline, U-Pad ice road stagging area, GC2/SAT	Hydraulic Fluid	0.25	On 2/26/07 at approximately 11:30am a water truck was helping to construct an ice road on the EWE pipeline crossing at the Kuparuk river. While offloading the water a gasket failure on a hydraulic filter allowed the release of 1 quart of hydraulic oil to the ice road surface. SRT was contacted and the released material was immediately cleaned up and disposed of in accordance with disposal guidelines.	Shovels and Ice scrapers were used to remove the contaminated snow and ice.	The snow and ice were taken to T-pad storage facility.	The verbal notification was made on 2/26/07 by the WOA Environmental advisor at approximately 1300. GPS N70.17.695 W148.57.409

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/24/06	2006-IR-1915508	Well Pad J, Inside Wellhouse 28, J-Pad., GC2/SAT	Corrosion Inhibitor	0.25	Employee and co-worker were working on J-Pad J28 doing a Chemical System reconnect. Employee pressurized the line to the SCO-Flow Panel to 2900psi. He then allowed the flow to well head and pressure went to zero. After blocking in at the SCO-Flow the system would not depressurize. He called the chemical operator and they continued to check the system. The operator was at the skid and he told the employee to bleed off the system. Employee then started to loosen the nut and the tubing blew out releasing chemical. Employee had a containment bucket right there and he directed the flow into the bucket. Approximately one half cup or less was released to the Well house floor.	Contaminated gravel was shoveled up into oily waste bags for transportation. Absorbent in the secondary containment soaked up liquid.	The contaminated gravel will be taken to Pad-3. Absorbent pads were taken to an approved NSB oily waste dumpster.	NOTE: PREVIOSLY SENT REPORT SHOWED BPX SPILL REPORT NUMBER 06-164 WHICH WAS INCORRECT. THE CORRECT SPILL REPORT NUMBER IS 06-165.
3/8/92	1992-IR-87238	Well Pad, Roads	Hydraulic Fluid	0.25	Loader veered off the road when a tire blew out causing the loader to strike a VSM and put a hole in the hydraulic reserve tank. Contaminated material was shoveled into bags by Nabors personnel and taken to A3/W2 melt tank for recovery.		Contaminated material taken to A3/W2 melt tank for recovery.	Loader veered off the road when a tire blew out causing the loader to strike VSM and put a hole in the hydraulic reserve tank.
4/20/06	2006-IR-1805336	Well Pad C, C-37 freeze protection methanol injection needle valve for p-pilot valve tubing manifold., GC3	Methanol	0.25	Well Pad Operator discovered a methanol release at C-37. He called 5700. The estimated volume was approximately 1 quart. C-37 was already shut-in. Using the freeze protection documentation, Operations verified that the liquid was neat methanol and therefore, "reportable" to the appropriate agencies. Contaminated gravel was removed. The Operator identified the source of the leak as a needle valve, used for mehanol injection, where the injection quick-connect screwed into the needle valve body. This entire injection assembly is connected to the p-pilot valve manifold. The Night Shift Grease Crew replaced the leaking needle valve.	The contaminated gravel fwas removed from the well house using hand tools.	Pad 3	The initial verbal notification was made on 4/20/06 by the GPB West environmental advisor Bill Fletcher at approximately 20:15
8/1/06	2006-IR-1926959	G&I Facility, Roadway and tundra adjacent to upper pit at the G&I plant., Non Process Area	Crude Oil	0.25	Vac truck was being offloaded at G&I upper pit with fluids from the GC-1 skim oil tank. The material included hydrocarbons treated with schmoo be gone and water. The material created a mist and steam during the operation, and the wind had been blowing. The driver/operator noticed that the mist was being blown across the road, and notified the plant operator. It was determined that the wind had carried a mist from the material across the road and onto the tundra adjacent to the roadway.	Heavy equipment was used to remove contamination from the gravel roadway. Weedburners were used to burn contamination from the adjacent tundra sand and grasses.	Contaminated gravel was disposed at the Grind and Inject facility. Contaminated PPE and / or absorbent-type materials were managed as solid oily waste.	Notifications were made to all agencies. Note: Approvel to burn Tundra grass was given By Amanda Stark of ADEC.
3/15/01	2001-IR-101030	NW Eileen	Diesel	0.25	While sitting in a Peterbilt Truck on "L Pad" lay down yard, driver was alerted by ground personnel that his fuel tank was dripping fuel. A containment was put in place and a mechanic was called to the scene. This incident resulted in less than one quart of diesel impacting the "L Pad" lay down yard (149.20N by 70.21N). The mechanic closed the inlet and outlet valves on the left tank. The fuel was coming out of the breather valve. It is believed that the return line to the left tank was open and the fuel line was closed. The truck was currently using the right tank for fuel. The return fuel was going into the left tank causing the overfill.	Chipped up impacted ice and placed in oil waste bags. Cleaned out drip pan using absorbent pads.	Reuse melted fluids. Dispose of absorbents in approved oily wated dumpster.	This information is being provided to ADEC to fulfill immediate spill notification requirements under 18 AAC 75.300.
7/15/06	2006-IR-1908145	Well Pad M, M-3 wellhouse, GC2/SAT	Schmoo-B-Gone	0.25	After pressure testing and pumping 70 bbls, an o-ring failure in the tree caused 1 quart to be spilled inside the wellhouse	Sorbents and hand tools were used to clean affected gravel and well head.	The material was placed in WOA SRT acculation bin and will be taken to Pad 3 disposal facility. Sorbents were placed in NSB approved oily waste dumpster.	The verbal notification was made by the GPB Environmental advisor on the WOA at approximately 0735 hours on 7-15-06
11/26/06	2006-IR-2063997	Well Pad F, F-31, GC1	Corrosion Inhibitor	0.25	A chemical operator was returning a chemical system to service as the well pad operator was returning a long term shut in well, F-31, to production. The chemical operator was monitoring the system as the chemical pressure rose. The chemical operator was monitoring SkoFlo valve and adjacent equipment when he observed the SkoFlo valve fail, releasing a small amount of C.I. in the well house, the system was immediately isolated and the valve removed. All proper notifications have been completed and SRT has cleaned the area and a review is underway.	Shovels were used to clean affected gravel. Rags were used to clean the Well house wall.	The gravel was taken to an SRT accumulation bin and will be taken to Pad 3.	The verbal notification was made on 11/26/06 at approximately 10:25 AM by the GPB WOA Environmental advisor.
3/28/01	2001-IR-101121	EWE Pipeline	Methanol	0.25	Mechanic changed tanner system on the evening of the 27th. When he returned the next morning, he noticed a drip. He placed a containment on the ground and changed the defective petcock. He contacted the spill response team. Tanner Gas was not used at the time. Midland Air brake system de-icer and rustguard (Methanol) was used. Area inspected and cleaned by Houston Spill Response Crew. Approximatly 1 quart methanol made contact with ice road.	All of the contaminated snow was cleaned up using hand tools and placed into bags.	All of the contaminated snow has been taken to the Hazardous Waste Facility and will be reused on an approved job..	This information is being provided to ADEC to fulfill spill notification requirements under 18 ACC 75.300.
4/7/07	2007-IR-2225700	Well Pad F, F Pad, GC1	Crude Oil	0.25	Due to high pressure in the test separator, the rupture disk a and PSV's opened venting a small hydrocarbon mist to the releif pit.	Shovels were used to remove contaminated snow from spill area.	The contaminated snow was taken DS 4 Grind and inject facility.	The verbal notification was made on 04/07/07 by the WOA Environmental advisor at approximately 1700 hours.
3/21/07	2007-IR-2199703	GC-3 PWX Section, GC-3 skid 402, GC3	Corrosion Inhibitor	0.25	Loose packing on corrosion inhibitor valve at the loading area in skid 402.	Shovels were used to remove contaminated snow from containment area.	The snow was taken to T-pad storage facility.	The verbal notification was made on 03/21/07 by the WOA environmental advisor at approximately 10.35 AM.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/5/01	2001-IR-101169	EWE Pipeline	Diesel	0.25	At approximately 08:00, field personnel discovered a Tioga Heater burping diesel out of the gas cap on to the pipeline right of way. The heater was sitting on an incline with no containment. Field personnel cleaned area, moved heater to level ground and alerted ACS Tech. ACS Tech. coordinated the spill clean up, made proper notifications and disposed up material as per HCC/BPXA procedures. The heater was overfilled by night fuelers, which caused less than 1 quart to impact the pipeline right of way.	Hand tools were used to clean up the affected snow and ice.	The material was put into a melt tank for recycle use in freeze protect jobs.	This information is being provided to fulfill the spill notification requirements under 18 ACC75.300
6/10/06	2006-IR-1866600	Well Pad S, GC2/SAT	Corrosion Inhibitor	0.25	The chemical injection crew was bleeding air out of the chemical injection system after a pressure test. They hooked up a 300 PSI rated hose to the system; the hose had a valve on each end and was ~10¿ long. The pressure in the line was ~2000 PSI. One employee was cycling the valve into a container to catch corrosion inhibitor and bleed air, and another employee manned the valve connected to the trunk line. The third time the bleed valve was closed, the hose burst near the trunk line spraying the ground and lightly spraying the coveralls on the man working on the trunk valve. He immediately shut that valve in stopping further release of corrosion inhibitor. The employee who had some corrosion inhibitor on his clothing was sent in for a change of clothing and the Spill Response Team was called. Approximately 3 cups of corrosion inhibitor were released to the ground.	Hand tools were used to clean affected gravel.	Pad 3 disposal facility.	The Verbal notification was made at approximately 11:30 AM by the acting GPB environmental advisor.
12/26/06	2006-IR-2099317	Well Pad F, F-Pad Well 11, GC1	Methanol	0.25	While employee was performing system checks at F-Pad Well 11. He discovered methanol dripping from a Swadgelok fitting upstream of an isolated SkoFlo valve. (Estimated 1 quart or less) He isolated the fitting from pressure and performed a go-no-go guage fitting test. The fitting passed as a properly built fitting. SRT, foreman HSE notified.	The contaminated gravel was shoveled into an oily waste bag for disposal transportation.	Contaminated gravel will be shipped offsite as Hazardous Waste.	The verbal notification was made on 12/26/06 and initial report sent in on 12/27/06 by Matt Laskey
6/12/07	2007-IR-2299258	Well Pad U, U-pad , GC2/SAT	Corrosion Inhibitor	0.25	Chemical spilled from a corrosion inhibitor tank vent line while conducting a routine tank fill. Upon further investigation, it was discovered that the BPR (Back Pressure Regulator) and PSV were both plumbed into the vent line on the tank.	Sorbents were used to wipe affected piping. Shovels were used to clean affected gravel.	The sorbents were taken to an approved oily waste dumpster. The gravel was taken to Pad 3 disposal facility.	The verbal notification was made on 6/12/07 by the GPB West Environmental at approximately 14:40.
11/30/05	2005-IR-1637201	PBOC, PBOC Bull rail, Non Process Area	Sulfuric Acid	0.25	While crew was off shift pickup was plugged in at the PBOC bullrail and caught fire.	Hot water and Soda Ash were used to nutrelize the acid in the puddle that was created by the Fire Dept. while putting out the truck fire. After testing, a loader and dump box were used to remove contaminated material.	Material was brought to Pad 3 for disposal.	Agencies were notified of release. Toivo Luick ADEC was on site toaccess spill.
5/12/07	2007-IR-2262676	GC-2, W-01 lateral valve, GC2/SAT	Methanol	0.25	While preparing well W-01 for a DHD job, a small leak on the lateral valve grease fitting was identified.	Shoveled up the contaminated snow.	Turned over to haz-waste coordinator for disposal.	Verbal notification made on 5/12/07 at approx. 04:55 by GPB WOA Env. Advisor.
7/6/07	2007-IR-2331092	Well Pad J, J-Pad, GC2/SAT	Paint	0.25	While mixing A&B poly roof coating Fiiting failure on application hose.	Rags and sorbent material were used to clean affected area in the trailer. Handtools were used to remove affected gravel from the pad.	All the rags and gravel was taken to the GPB Waste coordinator for disposal.	The verbal notification was made on 7/06/07 by the GPB Environmental advisor.
7/30/03	2003-IR-581581	Well Pad W, W-19 wellhead chemical injection point	Corrosion Inhibitor	0.25	Approximately 1 qt of corrosion inhibitor leaked from a check valve at the wellhead on W-19. Cause has been determined to be a check valve failure. All notifications were made and cleanup completed.	Shoveled contaminated gravel into oily waste bags for transport to an approved storage/disposal facility.	The recovered material was taken to an approved waste accumulation bin at Santa Fe Pad, PBU.	Initial notification of this spill was made at or about 9:35 am 7/30/03.
4/21/90	1990-IR-96972	Spine Road	Sulfuric Acid	0.25	Broken battery was found on Spine Rd. and Child's Pad turnoff.	YES -		Broken battery was found on Spine Rd. and Child's Pad turnoff.
6/1/02	2002-IR-233911	Drill Site 13, DS #13 under well 12 flow line.	Crude Oil	0.25	At approximately 4:00 am the Drill Site 13 operator was performing outside inspections. During his inspections he noticed a drip of crude oil coming from the flow line insulation on well 12. The operator notified the FS-3 lead Drill Site operator who notified the area Team Leader. The operator’s shut-in the well and de-pressured the flow line that stopped the leak. SRT team was notified of the leak immediately after the well was secured for clean up and agencies notifications. The corrosion group will determine the cause and corrective action.	Recovered a majority of the material with absorbents. Remainder of material will be removed upon completion of repair operations and dewatering of the impoundment. Area was sand bagged off. After snow melted fluids were vacumed off and disposed of at pad 3. After the area filled up with water agian no sheen was found.	Absorbents will be disposed of as oily waste. Water and soils will be disposed of at Pad 3.	Immediate notifications made to the appropriate agencies.
7/22/02	2002-IR-270482	Drill Site L2, L2-26	Seawater	0.25	Well Support hardline crew was changing out a fitting and approx. 1 cup of inhibited seawater splashed beyond the containment bucket and onto the pad.	Hardline crew cleaned up seawater and placed into bag for ACS pickup and disposal.	1 cubic yard of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies.
10/21/02	2002-IR-343954	Drill Site 07, Drill site seven well 09	Methanol	0.25	Operator noticed a small leak on the stem of the inside annulus valve. Called SRT to clean up and Well Services to service the valve.	Recovered material with hand tools and place into container for disposal.	1 cubic yard of material taken to G&I for disposal.	Immediate notifications made to the appropriate agencies.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/10/03	2003-IR-411580	Drill Site 09, DS #9/well #28	Methanol	0.25	The crew started pumping operations and sump immediately started to fill. Pump was immediately shut down. Crew was not able to confirm source of leak filling the sump. Upon restarting to evacuate sump a spark was seen and the pump was again shut down. Crew notified BP PE and then called for a new pump to be delivered and told equipment dispatcher that the pump had a full sump and electrical short. Shortly thereafter a small leak of methanol was noticed coming from the sump area and had drained onto the pad under the triplex (right rear corner). The sump was evacuated and the triplex was delivered to DSM where a cracked weld in the sump was discovered. The triplex was tagged out and the equipment dispatcher notified to pick up for repair	Recovered material with hand tools and placed into container for beneficial reuse.	Material will be beneficially reused.	Immediate notifications made to the appropriate agencies.
10/16/02	2002-IR-341121	Drill Site 02, DS #2, well #6	Methanol	0.25	meth/diesel was leaking from stem packing on needle valve on Low Pressure pilot isolation valve. Packing was tightened and leak stopped.	Material recovered with absorbents.	Disposed of as oily waste.	Immediate notifications made to the appropriate agencies.
12/16/02	2002-IR-396296	Niakuk, Well NK-23 wellhouse	Methanol	0.25	Methanol leaked out of packing on a needle valve on well NK-23 flowline in well house.	Recovered material with hand tools and placed into container for disposal.	1 cubic yard of material taken to G&I for disposal.	Immediate notification made to the appropriate agencies.
4/8/02	2002-IR-198922	U-09 (Fabrication Shop), EAO, South Side of U-9 Fabrication shop., Non Process Area	Sulfuric Acid	0.25	A well Tie-In truck was parked next to U-9 Fabrication shop. The truck was started and idling in order to warm it up. While the truck was idling the battery exploded, resulting in battery acid leaking from the battery case. Workers were not exposed to the battery.	Neutralized material and recovered with hand tools. Material was placed into appropriate container for disposal.	Material will be disposed of as hazwaste.	Alaska State Trooper notified of incident on 4/8/02.
3/29/05	2005-IR-1300526	Well Pad W, W-16, GC2/SAT	Hydrochloric Acid (HCL)	0.25	Hardline gasket failed allowing 1 pint of acid to leak into secondary containment.	Product was neutrualized and taken to Schlumberger processing facility for reuse.	The material will be reused in another acid formula.	Verbal notification was given on 03-29-05 at 9:30am
7/4/93	1993-IR-97993	Well Pad, Roads	Sulfuric Acid	0.25	Boat battery housing cracked during transport.	Metis/Cleanup		Boat battery housing cracked during transport.
12/7/05	2005-IR-1648383	Well Pad Y, WOA, Y-pad, well # 23., GC1	Corrosion Inhibitor	0.25	As the well pad operator was conducting his rounds for the evening he found C.I. leaking from the injection system and shut in the system, he then notified the spill reporting line. SRT arrived onsite and cleaned up the release, and estimated it to be one Quart. On the afternoon the next day the well pad operator informed a chemical operator of the release. The Chemical operator immediately notified the CIC department and went to Y-23 to begin investigation. The investigation is on going at this time.	Contaminated gravel was removed using a shovel.	Sorbent material will be taken to NSB oily waste dumpster. The affected gravel will be taken to Pad-3 disposal facility.	Initial phone notification made on 12/7/05.
9/3/06	2006-IR-1963622	Flow Station 3, GPB-EOA-FS3 Module 4913, FS3	Corrosion Inhibitor	0.25	GPB-EOA-FS3 Module 4913. Area Operator discovered small puddle of chemical while making routine rounds. The Operator then traced source to a leaking union fitting on a Strainer Basket Dp gauge. The Operator then tightened the union fitting to eliminate the leak. Absorbant pads were then placed on the accumulated liquid. The absorbant material and accumulated liquid was disposed of via Oily Waste Disposal.	Absorbant Pads were used to soak up standing fluid..	Absorbant Pads went to Oily Waste.	All agencies were notified of release.
2/29/04	2004-IR-819310	Pad 10, At the methanol trailer staging area on pad-10., Non Process Area	Methanol	0.25	An employee was at pad 10 inspecting methanol trailers for use. While looking at trailer # 68-727 he found a small leak from the end cap on the hose. Fluid had leaked out the sealing cap on the hose and onto the trailer walkway and then to ground. A drip line of about 14" long had formed in the froze snow covered pad.	Hand tool's were used to remove contaminated material from area.	Material was melted down and used for freeze protect fluids.	Notifications were made to agencies.
2/28/03	2003-IR-447897	Checkpoint - East, East Checkpoint, Non Process Area	Sulfuric Acid	0.25	Approximately 1 quart of battery acid leaked on to the gravel road surface at the East Checkpoint when the 12 volt battery in a vehicle exploded.	Chipped up, Nutrilized and removed in oily waste bag.	Liquid was nutrilized and brought to T pad for disposal.	Notifications were made to agencies.
5/2/04	2004-IR-887632	Drill Site 18, DS18 by well 13 , FS1/SIP/STP	Methanol	0.25	DSM technician found a leak from the hammer union on the end of the Methonal hose. The hose end was on the walkway and the Methonal dripped on the walkway to the side of the containment pan and onto the ground.	hand tool's were used to remove contaminated material.	Benificial reuse.	Notifications were made to agencies.
4/28/03	2003-IR-533852	Flow Station 3, Flow -3 Mod. 4943 & 4946	Sulfuric Acid	0.25	On April 28th , 2003 3 cups of battery acid was discovered on the module floor of 4943 were the electric pull cart is charged. Spill line was call to insure safe and proper cleanup and disposal of the material	Material was neutralized with soda and picked up with sorbents.	Material was taken to HWPM for Haz-waste disposal.	All propper agencies were notified.
11/23/06	2006-IR-2065293	PM-1, P2-14, cosasco flange on downcomer, GPMA	Methanol	0.25	Operator entered well house and found cosasco coupon fitting leaking methanol	Hand tool's were used to remove contaminated gravel.	Gravel was brought to the Hazwaste coordenator to be shipped as Hazwaste.	Agencies were notified of release.
2/25/05	2005-IR-1256817	Drill Site 02, Drillsite 2 well 15, FS1/SIP/STP	Methanol	0.25	On daily checks of wells at well 2-15 operator detected a smell and noticed melted snow under flowline. Closer investigation showed a drip of clear fluid from a Cosasco corrosion probe fitting. Fluid assumed to be methanol due to the flowline was out of service and a freeze protect tag was on the wing valve.	Hand tools were used to remove contaminated material.	Material was placed in melt drum and will be used for benificial reuse.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
7/4/04	2004-IR-965704	West Dock, 100 yard south of PM-2 next to Crowley barges., Non Process Area	Diesel	0.25	At approximately 10:30 am, an ACS employee discovered a sheen on the water near one of the barges. He used sorbent boom to contain the sheen and put sorbent pads in the boomed area to absorb the sheen. The source of the sheen is unknown. After the the sheen was contained he called SRT, he was then instructed to call it in to the 5700 spill line.	Sorbent boom and pads are being used to contain and pick up the sheen.	Sorbent boom and pads will be disposed as oily waste.	Immediate notifications were made.
5/11/05	2005-IR-1365083	PM-2, PM 2 # 23, GPMA	Schmoo-B-Gone	0.25	During spotting operations the tanker was backing up to the pump unit. When the tanker stopped the rear access cover came loose. This let shmoo-be-gone slosh out of the tanker. The cause is believed to be a faulty vent/vacuum breaker. This let excess pressure to build up in the tanker causing the access cover to pop loose.	Hand tools were used to remove the contaminated gravel.	Contaminated material was brought to Pad 3 for disposal.	Agencies were notified of release.
10/28/05	2005-IR-1595698	Drill Site 06, DS-06 at the corrosion inhibitor pump, FS3	Corrosion Inhibitor	0.25	The drill site operator noticed the corrosion inhibitor pump was leaking at the pump head (in the containment pan). He called the chemical operator and both of them discussed the rebuild of the pump head the next day when parts and time permitted. The pump was left to continue running until later that night when the drill site operator decided the leak (now about a quart ¿ according to him) was increasing in severity, and then shut off the pump. The chemical operator is fixing the pump today.	Sorbent was used to remove product.	Used sorbent went to oily waste stream for disposal.	Agencies were notified of release.
9/2/06	2006-IR-1964722	C Pad, C-Pad Chemical Loading area., Non Process Area	Methanol	0.25	Last night at approximately 19:50 an Alaska West Express transport released two pints of methanol to the pad in front of the office at C-pad. Two AWE trucks were on location for a short time when one of the drivers observed a small drip from the cap on the trailer¿s offload line. The crews responded correctly to minimized ground contamination, X5700 was contacted and the material collected. The truck was offload and returned to Fairbanks for repairs.	Hand tools were used to remove contaminated gravel.	Contaminated gravel went to Hazwaste for disposal.	Agencies were notified of release.
3/24/05	2005-IR-1294466	C Pad, C-Pad Chemicals, Non Process Area	Corrosion Inhibitor	0.25	After the delivery driver and chemical technician completed filling the tanker with Corrosion Inhibitor the driver pulled forward about four truck links and stopped. As the truck came to a stop the chemical sloshed in the tank and a small amount of chemical splashed outside an open hatch. The hatch cannot be seen from the ground but was opened for this fill and not closed again. The Unified Fluid Transfer Checklist (UFTC) was used but a step was missed. We have determined some additional information. A) There is an auto vent installed on the Dempster tank. Due to condensation resulting adding warm chemicals to cold tanks this condensation can accumulate and freeze in the auto vent system, which could result in over pressurizing of the tank. B) When transferring fluid to the tank the hatch is opened to safe guard against the pressurizing the tank 1.Drivers do this in two different manners some drivers open the hatch wide while other drivers only crack the hatch and block it open. 2.This after reviewing both processes it was determined that if the hatch had been just cracked chemical would have been much less likely to splash out of the tank ¿A significant timeline step came to the light, the chemical transfer had been completed and the personnel began to disconnect the equipment the employee walked to the office for a moment. When the driver returned to the truck he continued where we left off. oThe driver then began to drive away and traveled a few truck lengths ¿There is an allowance within the Unified Fluid transfer Checklist guidance document for repeat identical fluid transfers to be captured on the same document. The crews followed this procedure; however the first time the sheet is used initials are placed in the appropriate boxes. When the form is used for the second and subsequent transfers the steps are just reviewed without initialing, just a signature at the bottom of the form. oWhen the step of checking the hatch was missed it was on the second use of the check list so no initials were being written, so when the driver left the worksite and returned, there was not a written reminder where he had interrupted the process and he went from step ¿5¿ to step ¿7¿ and step ¿6¿ 'Checking the hatch' was missed.	Hand tools were used to remove contaminated snow.	Material will be brought to T- pad for disposal.	Agencies were notified of release.
9/13/05	2005-IR-1542654	Drill Site 06, 6-19 well house, FS3	Corrosion Inhibitor	0.25	6-19 found fitting leak on cheimical injection line.	Hand tools were used to remove material.	Material was brought to G&I for disposal.	Agencies were notified of release.
2/25/06	2006-IR-1740664	Drill Site 18, Drill site 18 at the sewage truck connection by the control room stairs, FS1/SIP/STP	Sewage	0.25	Arrived at drill site and found a sewage mess under the sewage holding tank truck connection. Called in release to 5700. SRT came out and cleaned up.	SRT cleaned up sewage using hand tools.	Material will brought T pad for disposal.	Agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/15/07	2007-IR-2121919	Drill Site 15, Ds-15 Well 21, FS3	Corrosion Inhibitor	0.25	Employee performing annulus treats at DS-15 Well 23 began to drive to next location prior to disconnecting hose. Resulting in a small spill of corrosion inhibitor (less than 1 cup) The action of pulling the hose from a valve on a flowing tree presented a significant risk for uncontrolled process release and injection injuries to workers.	Absorbent was used to remove contaminate.	Absorbent went to oily waste.	Agencies were notified of release.
8/5/07	2007-IR-2361325	C Pad, C- pad Chemical Warehouse, Non Process Area	Corrosion Inhibitor	0.25	While filling a 55 gallon drum at idle speed in the hazmat room of the C-Pad Warehouse, the drum was over filled releasing approximately 1 qt to the floor of the warehouse. The pump was immediatley shut down and the line was back flowed. The Supervisor was notified and then SRT. SRT informed workers to clean up the release with Simple Green and absorbants and dispose of the cleanup debris as oily waste.	Gross release was cleaned up with absorbant pads and PPE and final cleaned with Simple Green per instructions from SRT. Cleanup debris was disposed of as oily waste.	Oily Waste .	Agengies were notified of release.
5/12/07	2007-IR-2262041	MCC Fuel Dock, The vehicle was at the MCC Fuel Dock., Non Process Area	Sulfuric Acid	0.25	After fueling their vehicle (truck # 14 883) at the MCC fuel dock, the vehicle was started and the battery exploded. A containment was placed under the vehicle, orange cones were placed around the release, and Spill Response was called.	Spill Response neutralized the acid and then shoveled the contaminated snow/ice into bags.	All material was brought to the North Slope Hazwaste coordinator to be shipped off slope as Hazwaste.	Agencies were notifed of release.
4/4/05	2005-IR-1310733	Drill Site 13, DS 13-35 LPP , FS3	Methanol	0.25	Small methanol drip developed while freeze protecting the LPP.	Hand tools and absorbent pads were used to clean the area.	Contaminated material was disposed as Hazardous waste.	Immediate notifications were made
3/30/03	2003-IR-471882	Well Pad W, W-Pad Skid 501b, chemical hook-up.	Methanol	0.25	The 2" methanol injection line connected to production headers in W-501B had a pump truck connection consisting of a 2" x 1/2" threaded bushing and a 1/2" stainless ball valve for a bleeder. The 1/2" ball valve developed a slight drip in the NPT threads and caused a 1 quart spill to reach the gravel pad. No spill containment dike was under the truck connection.	Recovered all contaminated snow and gravel by shoveling material into oily waste bags.	Contaminated snow will be melted and recycled. The contaminated gravel has been taken to the Hazardous Waste Process Facility for shipment to approved site off-slope.	
9/2/04	2004-IR-1038467	Spine Road, Spine Road 1/2 mile from W-Pad access road. Edge of Roadway in Tundra., Non Process Area	Diesel	0.25	Pickup was following Wireline unit in a convoy to W pad to perform wellwork job. Driver lost attention while driving & ran off right side of road. The steep embankment & soft roadside sucked pickup off road to tundra. Vehicle was at a complete stop when it slowly turned over onto passenger side. Vehicle speed was not a factor, road & weather conditions were good. The driver was not injured but was taken to medic for observation. The incident is under investigation. Upon recovering vehicle from side of road a small amount of diesel & Transmission Fluid were discovered. The Enviro Tech was on the scene to recover fluids. The amount was deemed to be approx. 1 quart.	The material floating on the moist tundra puddles has been soaked up with absorbent pads and grass blades were wiped off. A few scoops of gravel were removed where the vehicle leaked on roadway after removal from tundra.	The contaminated absorbent pads were taken to an approved NSB oily waste dumpster. The contaminated gravel will be taken to Pad-3 disposal facility.	
9/2/04	2004-IR-1038467	Spine Road, Spine Road 1/2 mile from W-Pad access road. Edge of Roadway in Tundra., Non Process Area	Transmission Fluid	0.25	Pickup was following Wireline unit in a convoy to W pad to perform wellwork job. Driver lost attention while driving & ran off right side of road. The steep embankment & soft roadside sucked pickup off road to tundra. Vehicle was at a complete stop when it slowly turned over onto passenger side. Vehicle speed was not a factor, road & weather conditions were good. The driver was not injured but was taken to medic for observation. The incident is under investigation. Upon recovering vehicle from side of road a small amount of diesel & Transmission Fluid were discovered. The Enviro Tech was on the scene to recover fluids. The amount was deemed to be approx. 1 quart.	The material floating on the moist tundra puddles has been soaked up with absorbent pads and grass blades were wiped off. A few scoops of gravel were removed where the vehicle leaked on roadway after removal from tundra.	The contaminated absorbent pads were taken to an approved NSB oily waste dumpster. The contaminated gravel will be taken to Pad-3 disposal facility.	
2/6/01	2001-IR-98928	Well Pad U	Hydraulic Fluid	0.25	DRAFT: A mantis crane was walking forward to pick the pipe up off of VSMs. As the crane backed up to get into position, a helper noticed hydraulic fluid dripping from the rear end. The operator stop working, it was found that a high-pressure hose had a pinhole leak, spraying a fine mist of fluid onto the frame. Approximately 2 Qt of fluid was lost.	Crane has been wiped down with sorbent pads. Contaminated snow was shoveled into bags for disposal	Contaminated snow will be taken to Pad-3 disposal facility. Contaminated absorbent material will be taken to an approved oily waste dumpster.	
1/11/02	2002-IR-422075	Well Pad G, G-8 Well cellar	Methanol/ Water (50/50)	0.25	While making up perforation gun connections on G-8, approximately 1 quart of methanol leaked out of the tool connections and into the well cellar. SRT was notified and the material was cleaned up for disposal.	Contaminated snow and gravel was removed from well cellar with hand tools and placed in oily wasted bags for disposal transportation.	Contaminated snow will be melted down and reused on a approved well job. Class II contaminated gravel will be taken to Pad-3 for disposal.	
5/26/02	2002-IR-230110	Well Pad D, D-22	Corrosion Inhibitor	0.25	At Approximately0900 5/26/02 the VECO field crew at D-22 discovered a material release prior to a well house removal. Notifications were made and it was determined the leak was caused by the repositioning of the corrosion inhibitor line during the well disconnect. The well disconnect was performed on 5/25/02. The leak occurred upstream of the valve which was properly locked. SRT determined that 1 qt of corrosion inhibitor was released. Initial findings indicate that the corrosion inhibitor line was repositioned out of the way for well house and flow line removal by turning it 90 degrees and securing it to another line. The insulated tubing is connected to the valve with a swage lock fitting and the valve is connected to the main feed line with a swage lock fitting. A swage lock fitting above the valve was the source of the leak.	Contaminated gravel and snow was shoveled into oily waste bags for transportation to approved disposal site. Contaminated pipeline was wiped clean using absorbent material.	All contaminated gravel will be taken to T-Pad storage pit. Absorbent material was placed in an approved oily waste dumpster.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/21/01	2001-IR-147348	Well Pad R, Behind R-32 wellhouse.	Methanol	0.25	Methanol and water was used to freeze protect the R-32 water injection well when the well was put on MI injection. A portion of this fluid leaked through the Cosasco fitting located on the top of the lateral line behind the wellhouse. The estimated volume is 0.25 gal.	A shovel was used to remove .25 cubic feet of gravel under the flowline.	The exempt material was placed in the Environmental accumilation bin and will be disposed of a the Pad 3 disposal facility.	
8/17/03	2003-IR-595898	Well Pad W, W-Pad	Corrosion Inhibitor	0.25	The Pad Operator discovered chemical dripping from a Swagelok fitting on W-19, the fitting was just prior to injection point on the Companion Flange. The well had under gone well work over in June and had not flowed until August thirteenth, when the Well Testing unit had put the well on production and flowed it until late on the fifteenth, when they rigged down.	All of the contaminated gravel was removed from the well cellar with shovels and oily wasted bags. The material on the tree was wiped down with absorbent pads & rags.	Gravel will be taken to Pad-3 disposal facility. Absorbent materila will be placed in an approved NSB oily waste dumpster.	
11/6/07	2007-IR-2459121	Drill Site 11, DS11 Well # 18, FS2/COTU	Corrosion Inhibitor	0.25	A CI release was identified by the DSO at DS 11 in WH 18 originating from the needle valve/JIC cap location on the "T" in the chemical injection line before the line enters the tree. The purpose of the needle valve is to present a secondary location for chemical injection by a treater truck in the event that the direct feed system fails. The DSO tightened the needle valve and the JIC cap after identifying the CI release which immediately mitigated the problem. It is unknown when the last time a treater truck connected to the location or what caused the loosening of the threads.	Well tree and grating wiped clean with rags and chem clear. Contaminated gravel removed using hand tools.	Rags and sorbents sent to oily waste. Contaminated gravel sent to pad 3 for storage and remediation.	
3/17/02	2002-IR-185680	EWE Pipeline, Bus was located at the EWE junction on the construction ice road.	Propylene Glycol	0.25	Crew bus heater hose failed resulting in a spill of approximately 1 quart of antifreeze/water soution to the ground. The warm nature of the liquid allowed it to travel through the ice road and contact the gravel pad below.	Ice and snow was scooped up and placed in plastic bags with the use of hand tools.	The contaminated snow will be melted and disposed of at the Pad 3 non-hazardous injection well.	
8/13/03	2003-IR-593064	Well Pad R, R-Pad	Natural Gas Liquid (NGL)	0.25	R-pad's miscible injectant (MI) perimeter valve leaked condensate into a small creek and caused a sheen to form on the creek. At report time, the source of the leak has not been determined. This valve is approximately 15 - 20 feet above ground and scaffolding is being erected for access to the valve to determine root cause. This line was depressured to zero psi for maintenance two days prior to this event.	The sheen on the water was removed by dragging absorbent boom sweeps and absorbent pads on the water surface. This process was repeated 3 times until all the visible sheen was removed.	All of the absorbent material has been taken to an approved NSB oily waste dumpster.	
6/22/05	2005-IR-1427116	Well Pad N, Doyon 16 boiler room while over N - 08, GC2/SAT	Corrosion Inhibitor	0.25	Failure of brass ball valve on line that feeds aqua mate into boiler water feed pump failed causing 1 pint of aqua mate to leak onto the boiler room floor, then ran out of a floor joint onto the herculite.	The product that spilled onto the boiler room floor was cleaned up with absorbent pads as well as the product that leaked onto the herculite. The contaminated absorbent pads were taken to an approved NSB oily waste dumpster.	The contaminated absorbent pads were taken to an approved NSB oily waste dumpster.	
11/7/03	2003-IR-672282	Well Pad F, F-Pad, well 12	Methanol/ Water	0.25	A 1 quart material release of methanol water mix leaked from the F-12 SSV stem seal sometime during the night of November 6, 2003.	All of the contaminated gravel was removed from the pad with shovels and placed into oily waste bags for transportation.	All of the contaminated class II gravel will be taken to Grind & Inject Facility.	
3/1/01	2001-IR-100941	Kuparuk Reservoir	Diesel	0.25	Water Truck Operator started his operation with a vehicle inspection. The inspection showed no operating problems with this vehicle. After moving onto the Dead Arm Resevior to draw a load of water, the operator smelled Desiel fuel. The operator immediately shut off the vehicle, inspected the engine area and discovered a desiel fuel leak from the filter. Approximately 1 pint went into the containment and 1 pint impacted the ice. The operator made the correct notifications and cleaned the area.	Material was cleaned up using hand tools by the Houston contracting company spot clean up crew. Material in drip pan will be wiped out with absorbent pads and taken to an approved oily waste dumpster.	Contaminated snow will be melted in reuse tank for freeze protection material.	
3/7/07	2007-IR-2183291	Well Pad J, J-pad Module 59, GC2/SAT	Corrosion Inhibitor	0.25	The J-Pad operator discovered a leak from the discharge line of chemical pump while walking through the skid at J-pad. He shut in the system and reported the spill.	Absorbent pads were used to wipe up standing liquid inside of secondary containment.	Contaminated material has been taken to an approved NSB oily waste dumpster.	
3/30/06	2006-IR-1780989	PM-2, DS P2 Module 4923 MCC area, GPMA	Sulfuric Acid	0.25	The P2 UPS battery rack was found to be leaking from the bottom of one of the cells on the upper rack. A battery terminal below had liquids dripping onto it and splashed into the access walkway. Upon further investigation several more batteries where found crack but not leaking. The Battery Technicians found the source, isolated the source, and cleaned up the contaminated area.	Battery Technician's neutralized the acid and clean up the spill.	Spilled material was sent the Hazardous waste facility for disposal.	
4/17/04	2004-IR-871697	Well Pad Z, Z-Pad, GC2/SAT	Corrosion Inhibitor	0.25	Employee was conducting daily rounds in wellpad Z and found corrosion inhibitor dripping out of the enclosure where the SKOFLO valves are mounted. Upon closer examination it was identified that a small leak had developed between the SKOFLOs main body and the base plate. SRT was contacted and recovered all released material. The leak was contained inside the containment under the module. SRT estimated one quart of fluid was released.	Contaminated snow was shoveled into oily waste bags for transportation. Contaminated poly sheeting was cut up and placed into oily waste bags for transportation.	Contaminated material was taken to the Haz-Waste Process Facility.	
10/23/06	2006-IR-2026795	Well Pad U, U-3, GC2/SAT	Methanol	0.25	While performing routine daily inspections the operator discovered a needle valve on the wellhead had leaked methanol and crude onto cellar of the well hosue.	The contaminated gravel was shoveled into oily waste bags.	Contaminated gravel will be taken to the Grind & Inject facility.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/9/07	2007-IR-2223006	Drill Site 14, FS-3 Drill Site 14 well 16., FS3	Methanol	0.25	Seal failure on shut in freeze protected well created small gas release and about a cup of MEOH leaked into well house floor.	The methanol contaminated gravel was shoveled up.	The contaminated gravel was taken to G&I for class II disposal.	
11/27/03	2003-IR-692505	Well Pad A, Well A-31	Methanol	0.25	Pad Operator found a leak on A-31 "S" riser 3/4" valve stem seal. This valve is a root valve for a pressure gauge.	Shovels were used to remove contaminated gravel.	The material will be taken to DS-4 Grind and inject facility.	
7/31/06	2006-IR-1927899	Well Pad Z, Z-28 well house floor, GC2/SAT	Methanol	0.25	During routine HSE inspections of the well house the operator discovered methanol leaking from the inter annulus valve.	Material was cleaned up using hand tools.	Contaminated material was taken to Grind and Inject Facility.	
4/4/01	2001-IR-101166	EWE Pipeline	Transmissio n Fluid	0.25	Ground personnel observed a leak coming from under a sideboom working on the EWE Pipeline Right Of Way. Personnel stopped all operations and placed a second containment under leak, made proper notifications, area was cleaned and disposed of as per HCC/BPXA procedures. HCC mechanic examined the sideboom and determined that a seal on the transmission had failed. This failure caused approximately 1 quart of transmisson fluid to impact the pipeline right of way. The equipment was transported back to HCC Equipment Shop for repair.	Clean up was done using hand tools.	Recovered snow was put in accumulation bin and taken to pad 3	
12/24/05	2005-IR-1668030	Well Pad N, N-8, GC2/SAT	Methanol	0.25	Small meth spill discovered in front of N-8. Facility indicates no activity in the area and that the triplex pump with methanol sump located on same pad was not the source.	Contaminated snow was shoveled into bags and melted for re use.	Material will be melted down and reused on an approved job.	
3/9/06	2006-IR-1753697	GC-2, GC-2 Flowline Spill, GC2/SAT	Propylene Glycol	0.25	A spot of glycol was discovered on the ice pad staging area for the GC-2 transit line spill clean up.	The contaminated snow and ice was shoveled into an oily waste bag for disposal transportation.	The contaminated snow has been taken to T-Pad storage pit.	
10/16/03	2003-IR-651861	PM-2, PM2 methanol tank	Methanol	0.25	while pumping up the high level switch hose clamp came loose and leaked 1 quart of methanol on the side of tank which was in a secondary containment.	Material was wiped up using sorbents.	Contaminated sorbents will be disposed as hazardous waste.	
7/20/02	2002-IR-269661	Well Pad L, L-Pad Well House 110	Seawater	0.25	While rigging down hardline by well house 110, well bore fluids were released to the pad. Approximately one quart of well bore fluid was released to the pad. Containment pit was in place, fluid missed the pit and landed on the pad. ACS was called and cleaned area and disposed.	Contaminated gravel was shoveled into oily waste bags for transportation to an approved disposal facility.	Contaminated gravel will be taken to T-Pad for disposal.	
3/3/03	2003-IR-449362	Well Pad E, E-21	Methanol	0.25	Stem Packing began dripping on a shut in well and was found by the Pad Operator performing his routine duties. The stem packing dripped into a secondary container staged under the choke for this very purpose. The 50/50 methanol dripped onto the snow inside the liner and all material were recovered and no liquid contacted the ground. Environmental Technician estimated leak at 1 quart total.	The contaminated snow in the the containment pit was placed in an oily waste bag for transportation to reuse facility melt tank.	Snow will be melted down and reused on an approved job.	
7/5/06	2006-IR-1899341	Well Pad F, F-59 module, GC1	Sewage	0.25	Well pad operator found leaking valve from an envirovac in F-59 had spilled gray water onto ground. Called 5700 and reported. ACS estimated volumn was 1 quart and in a 1x1 ft area. ACS cleaned contaminated area under F-59 module.	The contaminated material was shoveled up with handtools.	Contaminated material was taken to pad 3 for disposal.	
6/4/02	2002-IR-235362	Drill Site 04, DS #4/24	Produced Water	0.25	CTU Unit #4 had just completed removing a liner deployment sleeve (25 feet long and 4.5 inches in diameter) from the coiled tubing. The tool had been depressed and drained, secondary containment was used for that portion of job. The tools was then being moved with the platform crane to be placed in the adjacent pipe rack when 1 quart of water/KCL was released from the upward cup of the tie back sleeve on tool.	Recovered material with hand tools and placed into oily waste bags for disposal.	1 cubic yard of material taken to Pad 3 for disposal.	
12/26/06	2006-IR-2098806	Well Pad F, F-Pad Well 22, GC1	Methanol	0.25	While performing system checks employee discovered what appears to be methanol dripping from a Swagelok Fitting upstream of an isolated SkoFlo valve. The operator isolated the fitting from pressure and performed a go-no-go fitting test which this fitting passed indicating a properly built fitting.	Contaminated gravel was shoveled into an oily waste bag for disposal transportation.	Material will be shipped offsite as hazardous waste.	
3/5/06	2006-IR-1748469	C Pad, C-pad Module 4911, Non Process Area	Corrosion Inhibitor	0.25	Upon entering module 4911, the chemical tech discovered corrosion inhibitor had leaked from the blending manifold piping. After investigating it was determined that thermal expansion from a closed system had caused the filter gasket to leak. Approximately 1 qt. of product was cleaned up.	Absorbent pads were used to wipe up the spilled material.	Contaminated absorbents were disposed as oily waste.	
3/14/01	2001-IR-101016	Drill Site 12	Methanol	0.25	During a walkaround inspection of the job, the crew noticed a DRIP of methanol coming from undercarriage of pup trailer just behind rear axle. Unable to ascertain exact location or cause of drip, but scraped up affected area (1' x 1'), placed containment drum under drip, and completed job. After the job, notified spill response team to inspect and advise. The spill volume was estimated to be less than 1 quart. All contaminated material was recovered and taken by the spill technician for reuse.	Recovered two shovel fulls of snow/methanol mixture and placed into bag for beneficial reuse.	Will melt and reuse product for freeze protections.	
2/27/01	2001-IR-100599	Well Pad, Roads	Motor Oil	0.25	While working on the pipeline right of way between U Pad and the Pig House, a welding truck was backing into narrow area and struck another vehicle.	All contaminated material was cleaned up by Houston Spill clean up crew using hand tools and oily waste bags..	Material will be taken to Pad-3 Disposal Facility.	
5/1/07	2007-IR-2245914	PM-2, PM2-50 WELL / TREE (STEM LEAK ON WING VALVE), GPMA	Methanol	0.25	FOUND METHANOL DRIPPING FROM WING VALVE ON WELL / TREE, P2-50.	Used hand tools to remove contaminated snow and gravel.	Contaminated materials taken to G&I for disposal.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/26/04	2004-IR-1144521	Well Pad H, H-5, GC2/SAT	Corrosion Inhibitor	0.25	While the nightshift wellpad operator was conducting his nightly rounds he found Corrosion inhibitor dripping from the fitting at the ball-valve mounted on the companion flange. The operator tightened the fitting and notified the spill response personnel by calling 5700.	Shovels were used to clean affected gravel. Rags and cleaning solution was used to wipe off affected well head.	The contaminated gravel was taken to Pad 3.	
8/3/07	2007-IR-2358832	Drill Site 01, DS-1 Well # 15A, FS1/SIP/STP	Hydraulic Fluid	0.25	While R/D pits & lowering jacks, a seal failed at the filter on the hydraulic line. Hydraulic fluid was discharged & ~1 qt dripped on the pad. (2 gals were contained in rig)	Shovelled up gravel around the affected area. Gravel was put in oily waste bags for disposal.	Collected & bagged for oily waste disposal.	
5/4/05	2005-IR-1353633	Well Pad S, S-23 well chemical injection panel, GC2/SAT	Corrosion Inhibitor	0.25	Well S-23 that had been shut in for quite some time. The crew doing check valve replacements, were pressure checking this chemical system after their installation and saw chemical dripping from the SKOFLO valve neck seal. The bread pan under the valve was not in correct position to catch the leak. SRT was notified. This type of seal failure has always been a week point in SKOFLO valve construction (hence the bread pans under the valves).	The contaminated gravel was removed from the gravel pad and placed in oily waste bag.	Contaminated gravel will be taken to Pad-3.	
5/25/05	2005-IR-1383631	Niakuk, Niakuk Module 4906, GPMA	Corrosion Inhibitor	0.25	Pulsation dampner fitting on the discharge of the CI pump leaked CI onto the module floor. There was no room for a drip pan under these fittings.	Absorbents were used to clean up the area.	Absorbents will be disposed as oily waste.	
3/23/07	2007-IR-2199739	Flow Station 3, On construction ice road of FS-03 to FS-01 Oil Transit Line near construction ¿Hat Loop -4¿, FS3	Hydraulic Fluid	0.25	Crew was using a Gehl Zoom Boom (#600-634) to set saddles during construction of the FS-3 to FS-1 Oil Transit Line and had stopped for lunch. When returning to work the operator noticed some drops of fluid dripping from the extended boom at the location of the swivel at the forks. At the time the boom was partially extended and the forks level. The operator shut the hydraulic system down and located a near by 4ftx4ft lipped containment to capture the falling drops. The wind was blowing and a delineator was used as a funnel to direct the drips into the containment. Approximately a 3ft x 3ft area of ice road had drops on the snow surface. Hand tools were used to remove snow and ice impacted by the fluid. The boom was removed from the site on the back of a low boy trailer and taken to the equipment shop for investigation. Observations on site revealed fluid leaking from a hose that runs the length of the boom on the inside of the boom. The hose was sheathed and it could not be determined that exact cause of the material release.	Hand tools were utilized to remove drops from ice road surface. Sorbents were stuffed in the hollow frame of the boom to trap fluids contained within the hollow boom	Impacted snow was removed by EOA-SRT	
4/5/03	2003-IR-477757	Drill Site 18, well 18-27 flowline fitting	Methanol	0.25	Found clear but brown stained fluid dripping out of corrosion coupon on well 18-27.	Material was recovered with hand tools and placed into oily waste bags.	Material was taken to G&I for disposal.	
3/10/03	2003-IR-456612	Flow Station 2, Flow Station 2 near PWDW2-1	Seawater	0.25	On 3/10/2003 at approximately 21:14 a mechanical failure of the valve stem packing on a Vac truck ESD valve resulted in a ¼ gallon release of 1% KCL to the gravel surface on the Flow Station 2 pad near PWDW2-1. The driver noticed the leak after he spotted another truck into place and completed his paperwork. Upon completing his paperwork, the driver checked the front doghouse on the Vac unit and noticed that the 10 inches of vacuum that he had on the unit was gone. Upon investigation at the rear doghouse, the driver noticed some fluid leaking from the stem packing on the ESD valve, and a small amount of fluid on the frozen gravel surface at the back of the truck. The driver rebuilt a vacuum on the system and reported the incident. SRT responded and cleaned the area and disposed of the contaminated material. The defective truck was subsequently offloaded and taken in to the shop for repairs.	Recovered material with hand tools and placed into bag for transportation to T-pad.	Material taken to T-pad for disposal.	
8/20/03	2003-IR-597908	C Pad, C-Pad Chemical loading area	Corrosion Inhibitor	0.25	The chemical tanker was in the process of being filled, they had just finished filling the #3 compartment and switched to the #4 compartment (#4 was completely empty), when the facility pump was started, there apparently was some type of malfunction in the internal tank valve allowing the chemical to be sprayed into the tank with enough force to spray out the open compartment hatch (normally open during filing to allow the driver to verify fluid level).	Material was recoverd with hand tools and placed into oily waste bags for disposal.	Material taken to pad 3 for disposal.	
5/7/02	2002-IR-218704	Oxbow Road, Oxbow road near the land fill.	Hydraulic Fluid	0.25	While traveling down Oxbow road in a box van unit # 98007, the fan belt came apart and ruptured the power steering hose and the radiator hoses resulting in a realease of power steering fluid and engine coolant to the roadway. Vehicle was stopped and containment was placed under the vehicle. Sorbent pads were used to contain the product to the immediate area. SRT was notified.	Recovered material with loader and placed into dump box for disposal.	Material taken to T-pad for disposal.	
7/19/04	2004-IR-981950	Drill Site 02, 2-25, FS1/SIP/STP	Methanol	0.25	Employees were pressure testing a 3" outlet line to production on 02 -25. As the pressure test was being conducted employees were monitoring the piping for any potentially leaking fittings and identified some liqued coming from the right side of the unit. The operator immediately shut down the pump, and upon investigation discovered that a 1/2" swedge lock compression fitting was leaking methanol from within the test unit, and leaking out of the side of the unit onto the pad. The product was immediately contained and the employees called 5700 to report the situation.	Hand tools were used to remove contaminated material.	Hazwaste shipment.	
7/10/03	2003-IR-565042	Flow Station 2, DS4 manifold building	Corrosion Inhibitor	0.25	During normal DS operations, the operator notice the unique smell of CI chemical. Investigation indicated a pin hole leak in the chem pump pressure relief line. Operators used absorbent pads to wipe up a small amount of chemical.	Material was wiped up with sorbents.	Oily waste	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
12/2/02	2002-IR-427637	Drill Site 14, Drill Site 14 Well 35 wellhead.	Methanol/ Water	0.25	Drill Site Operator noted a small amount of methanol water leaking from a wellhead flange after well 14-35 had been freeze protected. The flange bolts and a threaded connection were tightened and the leak stopped immediately. SRT was notified and 2 shovels of gravel were scooped up for disposal at the grind and inject facility	Approximately 1 cubic foot of contaminated gravel in the cellar of the well was scooped up with a shovel and transported to the Grind and Inject facility for disposal.	G&I	
8/18/03	2003-IR-596222	Northern Gas Injection (NGI), NGI Pad	Diesel	0.25	While bleeding well number 11 on NGI pad the operator bled into the slop trailer slowly through a needle valve with the trailer 95% empty. There was a mist started blowing out of the vent on the slop trailer. The operator shut down the proceedure and had the trailer moved to the shop for inspection and maintenance.	SRT cleaned up using a bobcat	SRT	
1/24/03	2003-IR-420757	Northern Gas Injection (NGI)	Calcium Chloride	0.25	While pumping down tubing on NGI-12, a nipple failed on the upstream side of a check valve. The pump crew did an excellent job of shutting down pumping operations immediately and securing the well. Crew called supervisor who notified SRT and BP representative. The nipple failure resulted in the release of one quart of seawater into the wellhouse. Company PM program in place called for annual replacement of nipple. The nipple was due to replaced at the end of the month. Note: This event has been re-classified as a Leak per BP Environmental (Bob C. - 01/28/03)	None required. Misted to atmosphere		
2/1/96	1996-IR-91175	Spine Road	Lube Oil	0.25	A Pool Arctic winch truck collided with a heater that was hooked up to the reflector crew pick up. The pick up was parked on the side of the Spine Road, while the crew was working on the reflectors. The heater was knocked off of the trailer and onto the tundra. The trailer hitch was pushed into the fuel tank on the pickup. Approx. 2 gallons of diesel spilled from the punctured fuel tank and onto the side of the road. Approx .25 gallons of lube oil spilled from the heater, onto the snow. (Note: Because the vehicle involved in the incident was not associated with a PBU department, this spills has been charged to the HSET Department by the Field Manager.)		The diesel contaminated snow was placed in the melt tank in A3/W2. It will be melted and used for freeze protection. The non-hazardous lube oil contaminated snow was placed in the accumulation bin on Santa Fe Pad for disposal at Pad 3.	A Pool Arctic winch truck collided with a heater that was hooked up to the reflector crew pick up. The pick up was parked on the side of the Spine Road, while the crew was working on the reflectors. The heater was knocked off of the trailer and onto the
8/6/94	1994-IR-86195	Well Pad F	Corrosion Inhibitor	0.25	Approximately one quart of Cortron RU-205 was released from a tanker during transfer operations. The spill resulted at the end of the job when the pump on the tanker was shut down and pressure relief vents were opened. The chemical was discharged through one of the vents connected to a scrubber located between the pump and the storage tank. The chemical is believed to have entered the scrubber through a defective float-controled valve at the top of the tank. The small area of gravel pad contaminated by the chemical was cleaned up for disposal.		Placed in plastic bags and taken to Pad 3 for disposal.	When the operator opened the vent line to relieve pressure from the tank, a mist of corrosion inhibitor vented out of the relief valve.
7/20/98	1998-IR-89909	GC-3 PWH Section	Crude Oil	0.25	On 7/20/98 at approximatley 1800 hours PSV-8580 on skim tank T-8512 lifted due to a large volume of gas entering the tank from B slugcatcher. The gas carried crude oil out the PSV and onto the tank and surrounding structures. Less than one pint of misted oil carried over the dike wall and into the impoundment area. This incident occurred while bringing B bank on line after an extended shutdown.		RCRA-exempt contaminated sorbents were be disposed of in the oily waste dumpster.	Approximately one pint of oil was misted over containment dike (wind blown) outside skim tank at GC-3
9/9/99	1999-IR-94214	Well Pad A	Methanol	0.25	While preparing to pour the contents of a small bucket into a slop oil trailer, the employee lost his balance. In the process of saving himself from injury, he dropped the bucket onto the gravel pad. The bucket contained approximately 2 gallons of Class II seawater and 50/50 Methanol. The spill was promptly reported to BP Environmental and cleaned up. The employee was not injured.	A loader and hand tools were used to remove the contaminated gravel.	The exempt material was taken to Pad 3	The employee was not injured
2/4/99	1999-IR-93435	Kuparuk River	MEG	0.25	Peak crane #R-619 leaked .25 gallons of glycol on the ice road in the west channel of the Kuparuk River. The crane was staged on the ice road, with no containment under it, waiting for a job to begin.		The glycol was taken to Peak base and added to the glycol recycler.	This is the Final Report.
12/28/00	2000-IR-95799	Well Pad X	Corrosion Inhibitor	0.25	At approximately 17:00 hours a chemical tech entered Well 10 on X-Pad and discovered a small leak occuring from the test port for the corrosion inhibitor injection. The chemical tech reported discovery and immediately cleaned area. Less than 1 quart was the estimated quantity of product that leaked to ground. The test port fitting was removed and the tubing capped. The 3-way valve was also replaced.	Contaminated gravel from spill was shoveled into oily waste bags. Approximately 1 bag of contaminated gravel.	Material will be placed into spot clean up bins and taken to Pad-3 with other routine clean up material.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
4/25/00	2000-IR-94914	Well Pad N	Methanol	0.25	Approximatly 0.25 gallons of used Methanol leaked from a needle valve on the APC Well Testing. The day shift well testing crew rigged down Flowback Unit #2 after completing well testing operations on N-18, but failed to install a plug into the needle valve on the seperator dump line. The incident occurred on change out day and due to mechanical difficulties with the charter flight the night crew was not scheduled to arrive in Prudhoe Bay prior to the day crew leaving for Anchorage. Normally the crew would remain on site until relieved by the in comming crew. However, due to the flight schedule, the crew was instructed to leave the unit in a secure manner until the night crew could get to location. The day crew left location at 1500 hours. When the night crew arrived on site, at approximately 2100 hours, the Well Testing Operator noticed that methanol was dripping from a needle valve on the seperator dump line. The operator plugged the needle valve and contacted his immediate supervisor. The WSA Operations Manager and WSA Safety were immediately notified of the spill and contacted the BP Environmental Technician. The contaminated snow and gravel were cleaned up and disposed of properly.	Affected snow was scraped up with hand tools.	Snow was placed in the melt tank for product recovery and reuse.	
11/6/00	2000-IR-95588	Niakuk Pad	Diesel	0.25	A Halliburton slickline crew was in the process of rigging down their unit, at Niakuk, well #21, when approximately 1 cup of a 90% diesel & 10% xylene mixture was spilled onto the gravel in the well cellar. The crew had completed a brush and flush job on well #21 and began rigging down the equipment. The last piece of equipment to be lifted off the wellhead was the pump-in sub. There was residual fluid from the operation which was level with the tree cap. When the pump-in sub was lifted, approximately 1 quart of fluid was released from the tree cap. The majority of the fluid was contained in the wellhead skirt spill containment dike. However, approximately 1 cup leaked out and onto the gravel in the well cellar. The crew immediately contacted the Environmental Department and APC Safety. The contaminated gravel was cleaned up and taken to Pad 3 for disposal. The spill dike was cleaned out with absorbent and the material was taken to an approved oily waste dumpster.	Gravel was shoveled into oily waste bag and put into a accumilation bin.	Pad 3 Disposal facility	
4/12/00	2000-IR-98856	Drill Site 03	Corrosion Inhibitor	0.20	"While preparing to transfer fluid to a test skid tank, the dry-lock fitting on the fill line was removed (without proper containment) and the fitting, which was not properly seated leaked corrosion inhibitor. Drip pan was not properly in place to preve	SRT went to the wellhouse with the DSO on 4/13/00 and could not find any product to clean up. It's possible it evaporated. Further inspection will be made later this summer during annual pad clean up to see if any sign of product is visible.		"While preparing to transfer fluid to a test skid tank, the dry-lock fitting on the fill line was removed (without proper containment) and the fitting, which was not properly seated leaked corrosion inhibitor. Drip pan was not properly in place to preve
6/11/03	2003-IR-536111	L-1, L1 module 4901, southwest corner of module	Sewage	0.20	Sewage water leaked onto pad from a closed valve. The handle could be closed completed. Placed a bucket under the valve until the holding tank was emptied.	Dug up and bagged contaminated gravel for pick up by SRT.	Matreial went to Pad 3 for disposal.	Notification was made to ADEC Waste water.
9/5/06	2006-IR-1969715	Access Road, Non Process Area	Lube Oil	0.20	Crew members moved large compressor approximately 100 feet down access road in preperation for continued media blasting. An impermeable tarp was placed on the road then the compressor was placed on it. Approximately ten minutes after parking the compressor while the crew continued the rig up process when they noticed that oil was dripping out ot her belly pan. The air compressor was slowly leaking oil into a 'belly pan'. When the unit was moved, it was not level and some fluid spilled out of the belly pan onto the containment material before the edge of containment could be built up with frame work (the material was laying on the ground and the unit moved onto it). The oil flowed off the containment material onto the gravel and tundra. The unit was take out of service for repairs. Also, we have requested the belly pans be checked before moving compressors to avoid spills.	Absorbent pads were immedately put down and caught the small leaked oil. A vac truck sucked up all fluid's in the polygonal trough.	Absorbents went to oily waste. All fluid's went to Pad 3 for disposal.	All agencies were notified of release.
7/4/04	2004-IR-964778	Flow Station 3, Outside module 4906, FS3	Corrosion Inhibitor	0.20	Operator discovered emulsion breaker leaking around the threads of a 2" threaded pipe nipple on the Emulsion Breaker tank truck fill line.	Contaminated material was shoveled up and placed into oily waste bags for disposal.	Material went to Pad-3 for disposal.	Immediate notifications were made.
12/25/06	2006-IR-2097887	Well Pad Z, GPB Z-Pad, GC2/SAT	Hydrochloric Acid (HCL)	0.20	Well Testsers were flowing back a mud acid job to Veco Tank farm. PH on fluids was 1-2. Crew went to change tanks and decided to blow gas from separator through tank inlet to freeze protect inlet line on tank currently in use. Separator pressure was 285 Psi and inlet lines to Tanks had been pressure tested to 4000 Psi. Employee that was monitoring the tanks called out over the radio that a chicksan swivel was leaking. Gas was shut off from separator, well was shut in due to low PH on returns and separator was depressured to flowback tank.	The contaminated snow was removed with shovels and placed into oily waste bags for transportation. The spray on the well house was wiped up with absorbent pads.	The contaminated snow will be taken to the Grind & Inject Facility. The contaminated absorbent material has been taken to an approved NSB oily waste dumpster.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/20/07	2007-IR-2443859	Flow Station 2, On the tundra north of the FS1 FS2 pipeline road., FS2/COTU	Hydraulic Fluid	0.20	USA Airmobile, contractor for BPXA through BP Central Power Station was washing high voltage 69KV overhead line insulators on BP power line 71 between FS-2 and FS-1 when it experienced an engine failure (pilots statement) and crash landed.This is under investigation as to the cause and events that led up to this incident. FAA and NTSB have been notified and BP has also started an internal investigation. This company has done this work for BPXA at North Slope since approximately 1987 without incident and does this work all over the world and this is the first helicopter failure or crash they have ever had.	Contaminated material was removed with hand tools.	Contaminated material placed in SRT storage bins and will go to pad 3 for disposal.	
12/20/06	2006-IR-2094165	Well Pad J, J-11, GC2/SAT	Corrosion Inhibitor	0.20	At 16:00 today a leak occurred at Well pad J well 11. During the chemical operators regular rounds he found a small seep of corrosion inhibitor on a check valve. During the process of removing the check valve in question a small quantity of corrosion inhibitor (less than one cup) was release to the ground. The pad operator and SRT have been notified. During investigation it was determined that the female threads on the check valve housing were poorly machined. The manufacturer has been aware of the issue and has implemented changes to solve this issue.	The contaminated gravel was removed with hand tools and placed in an oily waste bag for transportation.	Contaminated gravel will be taken to Pad-3.	
2/9/07	2007-IR-2152513	Drill Site L1, North of L2 - 300 feet south of the Putt river, GPMA	Hydraulic Fluid	0.19	90 ton Hydraulic crane was parked on the ice road north of L2. It had containment under it. Operator moved 90 ton to load on lowboy and noticed 1 cup of hydraulic fluid had missed containment and reported it immediately.	Chipped, shoveled and bagged contaminated ice and snow with hand tools.	Contaminated snow and ice will be taken to T-pad for storage and future class 1 disposal.	Immediate notifications to NRC were made.
2/17/03	2003-IR-438369	Well Pad W, W-Pad, well #19 at pump unit	Methanol	0.15	During a pressure test a small spill occurred due to a low pressure valve being left open inadvertantly. The spill occurred inside the tanker pump unit, but the door was slightly ajar and a small amount escaped onto the gravel pad. 5700 was called and th espill was cleaned up.	Shovels were used to pick up contaminated snow and placed in oily waste bags for transporting to recycle bin.	Contaminated snow will be melted and used for recycle.	
3/29/00	2000-IR-94803	Well Pad R	Methanol	0.15	A Dowell coiled tubing unit was rigged up on R-Pad, well #07i to perform a cement abandonment in prepartation for an up coming CTU sidetrack. The crew pressure tests all surface piping with methanol prior to beginning their operation. During the pressure test, at approximately 200 psi., the ground man notice the weep hole in a chicksan that was leaking fluid. Spill containment had been placed under the connection; however, a small amount of methanol was sprayed onto the snow covered pad. WSA Safety and BPX Environmental were notified of the incident. The spill volume was estimated to be less than 1 pint of methanol. The contaminated snow was cleaned up and disposed of properly. The chicksan was changed out and the crew completed the pressure test and scheduled work without incident.	Affected snow was cleaned up with a shovel.	Material was placed in a melt bin for recovery and reuse.	
4/21/07	2007-IR-2234765	GC-2, Well J-22 I/A, GC2/SAT	Methanol	0.13	Well services had loaded the I/A on the well with a methanol cap. Methanol began to leak out of a grease fitting.	The contaminated gravel was removed from the cellar with shovels.	The gravel was taken to the SRT accumulation bin and will be taken to Pad 3	The verbal notification was made on 4/21/07 at approximately 1840 hrs by the GPB WOA environmental advisor.
3/14/04	2004-IR-835611	Oxbow Road, Appoximately 30 yards north of the Oxbow road in the vicinity of the Pt. Mac. road intersection., Non Process Area	Hydraulic Fluid	0.13	Employee while working out of an elevated basket noticed a fine mist apparently coming from a hydraulic line. Employee immediately retracted the boom and shut down the equipment. Notification procedures were implemented. SRT responded and cleaned up and bagged an estimated 1 pint of fluid that had contacted the ice pad and snow.	Contaminated material was recovered using hand tools and place into oily waste bags for disposal.	Material was taken to T-pad for disposal	Immediate verbal notifications were made. The type of hydraulic fluid spilled was mineral oil.
2/25/07	2007-IR-2166077	Pipeline Right-of-Way, VSM25 + 19B; Lisburne Asset; PL ROW; 24 inch Pipeline Replacement Project , Non Process Area	Hydraulic Fluid	0.13	Marvel Mystery oil is used to lubricate the 24 inch internal pipe clamps during extreme cold weather. A fitting on the bottom of the reservoir on the internal pipe clamps was loose. Extreme cold has been blanketing the GPB area. A heater in the bead shack was left running during the night to ensure warmth of the internal pipe clamps overnight. A few drops of Marvel Mystery Oil escaped the reservoir at a drain fitting.	Hand tools were used to chip ice and sorbents were used to absorb up floating sheen. A water puddle had developed from the heater in the bead shack being left on over night due to extremely cold temperatures. Sorbents were used to pick up the sheen that was floating on top of the standing water on the ice road.	Ice and snow given to Spill Response Team per GPB field protocols. Sorbents were taken to the Central Disposal Cacility as oily waste.	The quantity was a few drops. the Tr@ction reporting system would not accep 1's or zeros.
7/28/02	2002-IR-275542	Drill Site 05, Drill Site 5 Well 20 Upright Tank 73062	Drag Reducing Agent (DRA)	0.13	Extra Slick KCL spilled from riser on tank #73062. Drill Site Operator noticed the KCL on the pad and notified Veco Dispatch. The tank had been filled earlier in the morning and the riser vac'd out. Over a period of a few hours some extra slick KCL had dripped out of the tank riser and onto the pad. Spill was contained with absorb and SRT cleaned will dispose.	Recovered material with hand tools and placed into appropriate container for disposal.	1 cubic yard of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies. Initially reported on 7/28/02.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
2/16/02	2002-IR-168529	East Dock, East Dock pipeline lay down yard	Methanol	0.13	HCC loader was involved in a loading operation when the operator’s vision was obscured by dirt on the loader windshield. The operator activated the loader’s window washer to clean the windshield. After finishing the operation, the loader was moved to another section of the pad. At this time, ground personnel discovered a spill where the loader had been. All operations were immediately shut down, notifications were made and area was cleaned. One half bag of contaminated snow with window washing fluid was recovered. This window washing fluid contained methanol.	Material was recovered with hand tools and placed into oily waste bag for disposal.	Contaminated snow disposed of at Pad 3.	Released material was windshield wiper fluid that contained trace amounts of methanol.
5/17/03	2003-IR-512464	Well Pad H, Connection between corrosion inhibitor supply line and tree on well H-14	Corrosion Inhibitor	0.13	Well Pad Operator was make his HSE walk-through checks on H-Pad and as he opened the wellhouse door to well 14, he found a chemical leak had occurred and proceeded to shut in the source. The Operator found a 1/2" stainless steel thread had leaked while operating at ~1000 psi. An attempt at disassembling the fitting was made but was unsuccessful due to the threads being galled. The well has had no chemical system modifications and the system has been in service for many months. There was evidence of thread sealant use in the original fitting make up. Over time, the damaged threads may have allowed the thread sealant to fail.	Contaminated material was shoveled into oily waste bags for transportation to an approved disposal site.	The small amount of contaminated material was taken to the T-pad solid waste storage facility.	Intitial (verbal) notification of this release occured on 5/15/03 at 8:00am
7/23/03	2003-IR-575523	Well Pad J, J-28 wellhouse	Corrosion Inhibitor	0.13	While doing his nightly HSE wellhouse walk-throughs, the pad operator came across a spot of chemical on the gravel and corrosion inhibitor dripping in the J-28 wellhouse. The operator found a gauge syringe attached to the test side of the chemical port and the syringe plunger on the ground along with around a pint of chemical. The chemical three way valve was in the on position (not test or off). The spill hot line was called. The operator donned the proper PPE, removed the syringe and capped the line.	Material was shoveled into oily waste bags for transport to an approved storage/disposal facility.	The non-hazardous, non-exempt waste will be taken to an approved waste accumulation bin at Santa Fe Pad, WOA	Initial notification of this spill occured at or about 8:15 pm on 7/23/03
4/7/02	2002-IR-198175	PM-1, On pad next to rig pit module	Calcium Chloride	0.13	Vac truck driver had completed unloading 3% KCL water, as he walked back along his trailer he noticed a wet spot under the trailer. Upon further investigation the driver found that a patch on the side of the trailer showed signs of a small leak	Removed spillage from ground surface and reused in brine water storage tank	Material beneficially reused for intended use.	Immediate notifications made to Alaska State Troopers on 4/7/02.
5/24/01	2001-IR-101468	Access Road	Diesel	0.13	Security Rover found 2.5 gallon can of mixed Gasoline (Gas & 2 Cycle Oil) apprx. 75' off spine road in tundra. It still contained fuel, and had leaked about 1 pint when discovered. Unknown vehicle had apparently lost the can off their vehicle as they traveled west on the Spine road near DS #6 entrance.	Recovered with hand tools and placed into bags for disposal.	Material will be disposed of as HAZWASTE.	This information is being provided to ADEC per 18 AAC 75.300
7/28/02	2002-IR-276576	Drill Site 14, Drill site 14 under flow line 14-17	Produced Water	0.13	On July 28 the DS-14 operator noticed oil had leaked out of a flange onto the pad but appears to have happened several months earlier. There are no signs of leakage at this time. 14-17 is a water injection well.	Recovered material with absorbents and hand tools.	1 cubic yard of material taken to T-pad for disposal.	Immediate notifications made to the appropriate agencies.
8/2/02	2002-IR-281087	East Dock, East Dock, PSI #9	Corrosion Inhibitor	0.13	1/2 cup of corrosion inhibited filtered seawater leaked past the flange on the wing valve and into the cellar. Wing valve was found to be open.	Recovered material with Vac truck and transported to G&I for disposal.	1 barrel of product taken to G&I for disposal.	Immediate notifications made to the appropriate agencies.
3/14/02	2002-IR-183987	Pad 10, EOA Methanol Storage Pad-10	Methanol	0.13	A commercial transport tanker containing methanol was being off-loaded at Pad-10. Spill containment was placed under tanker hose connections and isolation valves. During the fluid transfer operation, methanol was noticed to be leaking from a victaulic coupler at a joint in the manifold piping on the tanker. Some of the methanol ran down the outter edge of the containment pan onto the pad. Total volume of methanol on the pad was less than 2 quarts.The loading area is lined for secondary containment.	Recovered product with hand tools and placed into oily waste bags for benficial reuse.	Material will be benficially reused.	Immediate notifications made to appropriate agencies.
9/11/07	2007-IR-2405206	Well Pad S, S-Pad. North side of rig, adjacent to the pipe shed door., GC2/SAT	Paint	0.13	Employee had been painting from a manlift. When he lowered it to the ground, and was stepping out, the spray gun was inadvertantly kicked over & fell ~1' to the ground. The spray can reservoir came loose. ~1 pt of paint went onto matting boards and gravel pad. Contacted x5700. Environmental called back after reviewing the MSDS and classified the release as a spill. Gravel bagged up and sent to SRT for disposal.	Cleaned up contaminated gravel with a shovel and wiped matting board with absorbant. Bagged up and sent to SRT for disposal.	The recovered material was sent hazardous waste processing facility for haz-waste disposal.	This incident was initially reported at 1510 9/12/07
4/16/03	2003-IR-487317	L-5, L5 drill site, module 4925 on the north corner of the module	Corrosion Inhibitor	0.13	During routine checks the operator noticed snow stains under the loading box on the north end of 4925 module. The bottom of the loading box has fallen out allowing the snowmelt and small amount (approx 1 cup) on corrosion inhibitor residue to leak out on to the pad below. The contaminated snow was picked up and bagged, spill dike, and a secondary containment drums was place under the loading box to catch any fluids. A work order's issued to repair the bottom of the loading box.	Hand tools were used to remove material area.	Material was brought to T pad for disposal.	Verbal notifications were made to all agencies.
4/15/03	2003-IR-488034	Niakuk, Niakuk drill site, inside module 4902	Corrosion Inhibitor	0.13	During the routine module checks the operator discovered corrosion inhibitor leaking from the stem packing from the module 1/2" isolation valve. The pump was turned off, the piping isolated, and contain placed under the valve. Later the valve was changed out and the estimated cup of inhibitor was cleaned up.	LDSM crew replaced the corrosion inhibitor isolation valve and cleaned up the corrosion inhibitor from the module floor.	Used sorbents went for Hazwaste shipment.	Verbal notifications were made to all agencies.
4/18/04	2004-IR-873499	PM-1, PM-1 module 4911in battery room, GPMA	Sulfuric Acid	0.13	While making rounds, operator noted battery acid on floor. Called x 5700 who called SRT. Srt came out and cleaned up material on floor.	Acid neutrilizer was used along with sorbent to recover Acid from Mod. floor.	To be shipped off slope as Hazwaste.	Notifications were made to all agencies.
2/18/03	2003-IR-439679	Drill Site 11, DS11-23 Wellhouse	Methanol/ Water	0.13	DSO found small drip from the Cosasco fitting on DS11-23. The well had been shut-in and freeze protected with methanol water. As the well cooled, the packing for this fitting began to leak.	Contaminated snow and gravel was shoveled.	Material was brought to G&I for disposal.	Notifications were made to agencies.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/4/06	2006-IR-1857405	Drill Site 07, DS-7 East side of the pad, FS3	Hydraulic Fluid	0.13	The operator was out side of water tanker 68501 engaging pump and monitoring suction wand. The hydraulic motor on water pump failed releasing hydraulic fluids on to gravel pad and into adjacent lake on DS-07. SRT was notified along with AES safety. SRT estimated pint on gravel pad and 2 table spoons into lake.	A vactruck was used to recover the sheen in the water. The contaminated gravel was removed with hand tools and a bobcat.	The recovered water was taken to Pad-3 for disposal and the contaminated grave was taken to West pit at Pad-3 for future remediation.	Immediate notifications were made.
6/6/04	2004-IR-928447	PBOC, PBOC parking lot, Non Process Area	Corrosion Inhibitor	0.13	While parked in the PBOC parking lot, approximately 1 cup of CI leaked from a punctured oily waste bag and onto the gravel. It was noticed during a 360 walkaround. The source of the CI was a suction filter that had been replaced which was put in the bag for disposal. During transport the filter had apparentely punctured the bag, and the small amount of residual CI in the filter leaked out.	Rags were used to soak up most of the material and the gravel was shoveled into oily waste bags.	Rags were disposed as hazardous waste and the contaminated gravel was taken to Pad-3.	Immediate notifications were made.
9/20/07	2007-IR-2414773	GC-2, CC2A pad, adjacent to the office building.	Hydrochloric Acid (HCL)	0.13	At approximately 14:08 the vehicle operator started his vehicle in the parking lot. As he began to leave the parking space he heard a loud noise from under the hood of the vehicle. As he continued forward until he noticed a small liquid trail leading away from the parking space. He immediately stopped the vehicle and turned off the engine. After looking under the hood of the vehicle he determined that the battery had split, causing battery electrolytes to leak onto the gravel pad.	The contaminated gravel was neutralized and hand tools were used to recover the contaminated gravel.	The contaminated material was taken to the Hazardous waste facility for disposal.	Immediate notifications were made.
3/5/05	2005-IR-1268015	Drill Site 16, Drill Site 16 well 9, FS2/COTU	Corrosion Inhibitor	0.13	The chemical operator for DS16 found a check valve that was leaking on well DS16-09. The pad operator witnessed the leak. The chemical operator removed the check valve with the loose fittings and replaced the assembly so that the chemical could again be sent to the well. The leaking assembly was taken back to CIC for inspection. The threads were finger tight. A memo to the check valve installation crews will be sent after this. SRT was notified (1 pint) .	Hand tools were used to recover the contaminated snow and gravel.	The contaminated material will be taken to T-pad for disposal.	Immediate notifications were made.
5/8/05	2005-IR-1361166	Drill Site 06, on ground under ds6 manifold building, FS3	Sewage	0.13	while employee was walking under manifold building, he noticed a small spot on the ground below the sewage truck connection.	Hand tools were used to scrape up th material.	Material was disposed at Pad-3	Immediate notifications were made.
3/5/05	2005-IR-1267778	PM-2, P2 Drill Site, Module 4907, GPMA	Corrosion Inhibitor	0.13	The drill site operator noticed a small collection of corrosion inhibitor on the module floor under a 1/2" in-line filter. The filter was dripping a couple times a minute so it was isolated and de-pressured. The area was cleaned up with rags, absorbent, and water. The filter element was changed out the previous day. Upon inspection the seal ring assembly was checkout, reassembled, and tightened. It was then leak checked and returned to service. The clean up material was bagged and turned into the SRT office.	Spilled material was wiped up with absorbent and rags.	Contaminated aborbent and rags will be disposed as hazardous waste.	Immediate notifications were made
7/26/02	2002-IR-275014	GC-3 Oil Section, GC-3 Skid 28	Produced Water	0.13	Veco maintenance was in the process of installing a blind to abandon a produced water dead leg in Skid 28. While installing the blind approximately 1 pint of produced water spilled outside the secondary containment. Notification was made and the spill was cleaned up in accordance to BPXA procedures. Operations had completed the safe out for this task that also included sweeping the line with N2 to insure all the produced water had been removed. After completing the N2 sweep no liquid was coming from the available bleeds located between the isolation points that were double block and bleeds. Secondary containment was installed under the area were the blind was to be installed. Both available bleed points indicated no pressure therefore an opening and blinding permit was issued. The two Veco maintenance technicians cracked open the flanges and no liquid was present. After the flanges were spread approximately 3/4" liquid sprayed from the flange opening resulting in the spill. During the follow up investigation it was felt sludge had built up in this dead leg that resulted in some trapped pressure. While the flanges were spread the trapped pressure released allowing produced water to spray outside the secondary containment.	Sorbent material and shovel were used to clean affected ground and skid.	The sorbent material was taken to the NSB oily waste dumpster and the gravel was taken to T-pad storage facility.	
6/6/03	2003-IR-531248	Well Pad B, Well Pad B-17	Seawater	0.13	While Offloading Seawater into Pits, Vac Truck Trailer Leaked 1 pint of Seawater onto Pad. The Leak was Noticed by the Driver while he was doing a Walk Around during the Job.	Scraped Up Contaminated Gravel into Bag, Using Shovels and Delivered to SRT Warehouse at the BOC.	The recovered gravel contaminated with seawater was taken to the spill accumulation bin #1 at Santa Fe Pad, GPB.	
4/5/02	2002-IR-197796	Well Pad V, GPB, WOA, Well Pad - V, Skid 520	Sulfuric Acid	0.13	Two workers were in the process of installing replacement batteries into skid 520 on V-Pad. The workers lifted one of the batteries off a pallet and were in the process of placing it on a roller cart outside the skid. When they attempted to place it on the deck of the cart, it slipped from their hands dropping about 6 inches to the deck of the cart. The battery casing cracked and approximately 8 ounces of battery acid leaked out of the case. Employees immeadiately placed the battery in a plastic bag and inside a secondary containment liner.	The Battery was placed inside a plastic bag and then into a secondary containment liner. Affected snow and was shoveled up and placed in a oily waste bag.	The battery and affected snow were turned over to the GPB Hazwaste coodinator for proper disposal.	
7/15/02	2002-IR-266816	Well Pad S, WOA DS S-216 wellhouse	Produced Water	0.13	While performing wireline work on S pad, the crew drained a small amount of produced water from a 1.25" sand bailer into a small metal bucket. In the process of continuing the work, a crew member knocked the bucket over resulting in a small spill inside the wellhouse.	Contaminated gravel was shoveled into an oily waste bag for disposal.	Contaminated gravel will be taken to T-Pad or Pad-3.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
10/19/04	2004-IR-1094907	Drill Site 01, Drillsite #1, EOA, inside wellhouse 1-33 under downcomer.., FS1/SIP/STP	Corrosion Inhibitor	0.13	While operator was making daily well check rounds he noticed strong pungent odor in well 1-33 wellhouse. Operater found small corrosion inhibitor chemical leak coming from needle valve. Operator tightened-up packing nut on needle valve and stopped leak, called in spill and notified SRT for clean-up.	Sorbents were used to wipe up the area on the well house floor.	Material will be disposed as oily waste.	
1/8/04	2004-IR-739850	Drill Site 12, DS 12 WELL 14 , FS1/SIP/STP	Corrosion Inhibitor	0.13	QUARTER-TURN VALVE ON CHEMICAL INJECTION LINE DIRECTLY UPSTEAM OF THE TREE FLOWCROSS HAD A STEM PACKING LEAK.	Contaminated gravel was recovered with hand tools and placed into oily waste bags for diposal.	Material taken to Pad 3 for disposal.	
2/2/01	2001-IR-98934	Drill Site 03	Methanol	0.13	JOB Description: DS-3-25A Coil Tubing Operation. The tools were at surface and the pipe was being pulled through the Injector. The tools did not touch the pack off. The pack off pressure was at 1500 psi to maintain squeeze and there was 500 psi on the well. While pulling pipe a mist of Methanol, estimated to be less than 1 pint, was witnessed to come from the Injector head. The pressure to the pack off was increased and the mist was stopped immediately. The pump was shut in and the swab valve was closed. The well house and grating above the cellar were cleaned immediately. BP supervision and SRT were immediately notified. The cellar was inspected by SRT and no liquid was seen. The pack off was inspected and there were signs of wear but the pack off wear was not sufficient to cause the mist. BP Environmental is reviewing incident with ADEC.	Shoveled contaminated snow into container and reused for freeze protection.	Reuse for freeze protection	
2/25/02	2002-IR-173530	Drill Site 02, DS 2-32 Pad	Drilling Mud	0.13	Supersucker driver was loading mud onto truck. Mud was forced through blower filter and was blown out onto the Pad. Total release 1 pint. It was found that the mud was foamy, the truck was loaded to 92%. The mud foam was sucked into the blower resulting in the release.	Chipped up frozen mud from ice covered pad, put into oily waste bag and turned over to SRT.	SRT	
7/25/00	2000-IR-95184	Well Pad B	Crude Oil	0.13	Summerhires located a small crude oil leak coming from the 6 inch outlet line, from B-Pad, skid 57, to GC-3. Approximatley 1 cup of crude oil leaked onto the tundra. The Pad Operator was notified of the situation and immediately contacted the BPX Environmental Department. Drip liners were placed under each block valve to contain the leak. The initial investigation was begun by the Well Ops Team Leader.	Sorbents and rags were used to wipe crude from tundra.	Sorbents and rags were taken to NSB oily waste dumpster.	Repair order cut to repair/replace valve.
7/14/07	2007-IR-2337313	MOWF Stores, Stores Warehouse floor, Non Process Area	Sulfuric Acid	0.13	While charging battery to forklift at Stores facility, battery overflowed causing approximately 2 cups of battery acid to spill onto warehouse floor.	The acid was neutralized using soda ash and then wiped up using hazmat sorbents.	The sorbents were taken to the GPB Waste coordinator for proper waste disposal.	The verbal notification was made on 07/14/07 by the acting GPB West Environmental advisor at approximately 11:15AM
10/18/04	2004-IR-1094855	Access Road, Between Flow 1 and East checkpoint, Non Process Area	Transmission Fluid	0.13	While driving past Flow 1 the individual lowered his visor to reduce the sun glare. He had put paperwork over the visor and it fell down when it was lowered. As he tried to retreive the paperwork he got distracted and drove off the road on to the Tundra. One pint of power steering fluid was spilled and was cleaned up by the Spill Response Team.	Contaminated snow was shoveled into an oily waste bag for disposal.	Contaminated snow will be taken to T-Pad for disposal.	Immediate notifications were made. GPS coordinates for incident site: 70* 15.355 148* 24.986
3/26/06	2006-IR-1771849	GC-2, Q-pad Lake Staging area, GC2/SAT	Hydraulic Fluid	0.13	Hydraulic motor on Bobcat sweeper had seal fail causing spill on Q-pad staging area	Hand tools were used to scrap material from ice.	The recovered snow/ice was taken to the T-pad storage facility.	The verbal notification was made on 3/26/06 by the GPB West environmental advisor Bill Fletcher.
12/21/06	2006-IR-2095679	Drill Site 12, DS-12, Well-02, Wellhead. , FS1/SIP/STP	Methanol	0.13	A DHD crew was on DS-12 Well-02 to do a Mechanical Integrity Test (MIT) on the Inner Annulus (IA). The DHD crew had rigged up a tri-plex pump to the IA and began to pressure the IA up to 3000 psi. As the crew was pumping methanol into the IA, they noticed a leak coming from the casing hanger test port on the wellhead. The hanger pack off had leaked and allowed methanol into the top of the casing hanger. The check valve on the casing hanger test port had failed and the test port cap was loose. This allowed the methanol to leak out of the casing hanger and into the cellar. The job was shut down and the incident was reported. The crew bled the pressure on the IA to zero and tightened the cap on the test port. The release was estimated to be two cups. This is a mechanical leak from a failed check valve on the casing hanger pack off assemble.	Contaminated gravel was shovled into a bag for disposal.	The contaminated gravel will be disposed as hazardous waste.	Immediate notifications were made at 1205 pm 12/19/06
12/22/06	2006-IR-2096885	Drill Site 06, Wellhouse 06-08, FS3	Methanol	0.13	A small methanol spill was discovered in wellhouse 06-08. Leak stopped and methanol cleaned up	Cleaned with absorbants	Contaminated absobant pads will be disposed as hazardous waste.	Immediate notification was made at 20:05 12/22/06
6/15/07	2007-IR-2302990	Drill Site 12, DS12 Wellhouse 29, FS1/SIP/STP	Corrosion Inhibitor	0.13	While removing the supply line off the tote, and after bleeding the line, residual corrosion inhibitor spilled into containment after breaking camlock fittings.	Vac Truck was used to remove contaminated fluids.	Snow melt and Corrision inhibitor will be disposed of at Pad 3.	All agencies were notified of release.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/8/06	2006-IR-1973920	West Dock, West Dock causeway, Non Process Area	Diesel	0.13	While in the proccess of fueling the Bay Boats along the West Dock causeway, the fuel tank burped causing a pint of diesel fuel to be released which ran down the side of the boat and in to the water. A sheen was created on the surface of the water. The West Dock crew got absorbent on the immediately. The boats were also boomed at the time.	Absorbents were used to soak up Diesel.	Absobent went to oily waste.	All agencies were notified of release.
9/27/05	2005-IR-1559753	Niakuk, Niakuk well 25, GPMA	Methanol	0.13	while freeze protecting flowline with triplex pump a hose fitting leaked 1 pint methanol 100% on the gravel pad.	Hand tools were removed contaminated gravel.	Material was brought to Hazwaste coordinator, and will be shipped out as Hazwaste.	Agencies were notified of release.
8/17/07	2007-IR-2374856	Well Pad N, N Pad Module 56, GC2/SAT	Corrosion Inhibitor	0.13	Gasket failure on Milton-Roy chemical pump head failure resulted in a .125 gallons of corrosion inhibitor spill to N Pad Module floor.	Absorbent were used to recover the spilled material.	The absorbent pad was disposed as oily waste.	Immediate notifications were made.
7/14/07	2007-IR-2345092	Drill Site 11, drillsite 11 well 32, FS2/COTU	Crude Oil	0.13	Small amount of crude oil was released from a well head system. It appeared to be from a loose fitting.	Absorbent pads were used to soak up the crude oil.	The contaminated absorbent pads went to an approved North Slope Borough oily waste dumpster.	
9/13/06	2006-IR-1978276	Well Pad X, PBU X-Pad close to X-01, GC3	Paint	0.13	Roustabout crew was moving the truck from the shop to the rig and had some cans of safety yellow paint the pickup box. While moving across the pad there was a partial can of paint which did not have the lid properly secured, approximately 1 pint, in the pickup box that tipped over and spilled onto the pad. The area was secured and notifications were made.	The paint was shoveled up into oily waste bags for transportation.	Material has been taken to the Hazardous Waste Process Facility and will be sent offsite.	
3/27/06	2006-IR-1774694	Drill Site 01, Front of DS1-25 wellhouse, FS1/SIP/STP	Methanol	0.13	A E-line crew was performing braided line operations on DS 1-25. During BOP operations, it was noticed that a connection was loose and a minimal amount of methanol (tanner gas) dripped onto pad. SRT was notified and the contaminated snow was shoveled up and left for SRT to re-claim. The cause of the leak was determined to be a loose connection that coupled two hoses together.	Hand tools were used to recover the contaminated snow.	Contaminated snow was taken to the Haz-waste facility to be disposed as hazardous waste.	
9/24/06	2006-IR-1988679	Flow Station 3, GPB-EOA-FS3-Module 4906, FS3	Emulsion Breaker	0.13	Found 1 pint of EC2085A at FS3 in module 4906 on module floor. Had a leaky valve on Emulsion Breaker pump.	Used absorbents to clean up spill. Material bagged for pick up for SRT Technician.	Contaminated absorbents were taken to the Hazardous Waste facility for disposal.	
5/24/07	2007-IR-2274030	West Dock Road, West dock road near DS-2, Non Process Area	Methanol	0.13	Wells Support methanol trailer #68-232 had been used on Baker Pad by Hot OIL Services. At that time, the driver topped off the methanol tank and placed it in the trailer storage area on Pad 10. Later that night at approximately 0245 the night shift trailer hauler was dispatched to take the methanol trailer to PM-1, Well-9. He hooked up and inspected the trailer for any defiencies. When he reached DS-2, security had the road blocked for a rig move and the trailer hauler was asked to stop. When he did this the security guard noted fluid leaking from a hose on the back of the methanol trailer. The trailer hauler got out and checked the hose and found that the two-inch hammer union cap was loose and leaking 100% neat methanol onto the road. The two-inch hose had been placed on the methanol trailer walkway and secured to a hand rail. The hose was not in the containment area and when the union fitting started leaking the methanol went down the walkway and steps, then onto the road. The trailer hauler tightened the fitting and made notifications. SRT responded and determined the release to be a one pint of methanol.	Contaminated Gravel removed from road with shovel and bagged up.	The contaminated gravel sent to Haz-Waste for disposal.	
3/10/06	2006-IR-1755313	G&I Facility, G&I, Non Process Area	Motor Oil	0.13	On the afternoon of 10 March 2006, at approximately 12:15 pm, an employee was in the process of positioning Vac Truck #90029 into place on the ice road near G&I. When the truck was in position, the driver got out to put the containment pit down, and noticed that there was a spot of oil on the ground under the engine. The employee put down the pit, and made the proper notifications immediately. The oil appeared to be coming from the dipstick. The cause of the release was a frozen vent line. The line plugged with condensation that was frozen. This caused pressure to build up in the oil crank case, and this pressure released out of the dipstick opening. The amount released is 1 pint into containment, and 1.5 cups on the ground. Release will be classified as a leak.	Material was scraped up using hand tools.	The contaminated ice will be taken to T-Pad for disposal	
11/16/05	2005-IR-1620650	C Pad, loading area of C-pad chemical manifold module 4911. Vent on top of chemical delivery vehicle., Non Process Area	Corrosion Inhibitor	0.13	After loading corrosion inhibitor into the delivery tanker, employee moved vehicle before closing top vent. When the vehicle came to a stop the forward surge of the product caused a small amount to slosh from the open vent. Volume was estimated as less than 1 pint. SRT was notified. A THA was completed but did not include reviewing the vent position.	The side of the truck waswiped down with rags and the contaminated snow was recovered with a shovel and out into an oily waste bag for disposal.	Contaminated snow will be taken to T-Pad for disposal.	
9/27/05	2005-IR-1558792	Flow Station 3, FS-3 Mod. 4906, FS3	Petroleum Solvent	0.13	Encountered emulsion breaker pump air bleed leak when doing morning rounds.	Material was absorbed up.	SRT picked up absorbant pads	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
9/1/93	1993-IR-86693	Well Pad, Roads	Crude Oil	0.12	A pin hole leak was discovered by the inspection crew's x-raying process of the pipeline between GC-1 and GC-2 off the access road. The line was immediately depressured. Liners were placed uner the pipeline to control any future leaks while repair work is being done. Sorbents were used to soak up contaminant on the tundra.			Pin hole leak discovered by inspection crew between GC1 and GC2 off the access road. The line was immediately depressured and an investigation for the source began.
6/21/94	1994-IR-86298	Well Pad Z	Crude Oil	0.12	Houston employees were making a cold cut on a line they believed to be drained when small amount of crude leakage from the pipe was slung outwards into nearby water. Containment was immediate and complete.		The contaminated sorbents were placed in the oily waste dumpster. The contaminated sorbent boom will be disposed of when the work is completed in the area.	While making a cold cut with a pneumatic saw on the EWE line, which had been drained, the cutter began slinging crude (which was pocketed in the line) into a pond.
4/3/07	2007-IR-2216892	Well Pad N, N-Pad Skid 56., GC2/SAT	Corrosion Inhibitor	0.12	Employee was disassembling chemical lines on an abandoned chemical system on Nancy Pad Skid 56. Employee went to check the pulsation dampner to ensure the system had been bled down of pressure. When employee cracked open the dampner valve, the system still had a little bit of pressure in it and the employee coveralls were sprayed with corrosion inhibitor. Employee was wearing the proper PPE during this operation. Soon after the incident the employee went and took a shower and changed clothes. SRT was called along with the operator and the employee's supervisor.	The contaminated floor area was wiped clean using absorbent pads and rags.	The contaminated rags and absorbent pads were taken to an approved NSB oily waste dumpster.	
2/6/07	2007-IR-2148981	Well Pad D, D-Pad, GC1	Corrosion Inhibitor	0.12	Workers changing out drylock fittings on a corrosion inhibitor tank in order to flush the tank with water. A half barrel was placed under the fitting being changed as containment but a wind gust unexpectedly carried some corrosion inhibitor outside containment and onto the pad. . The possibility of wind spattering the material was not taken into consideration during the job set up.	The contaminated snow was shoveled into oily waste bags for disposal transportation.	The contaminated snow will be taken to Pad-3.	
4/2/00	2000-IR-94824	Well Pad M	Methanol	0.12	A Peak Winch Truck Operator was spotting a Tiger tank for well testing operations, on M-Pad, when an air line on the truck's air system was severed. This incident resulted in less than 1 pint of methanol, which is used for freeze protecting the air line, being spilled onto the pad. The Winch Truck Operator was backing the Tiger tank into position, but had failed to secure a neutral postion in winch control lever. The winch control was actually in reverse. As the winch truck was backed up, in low gear, the winch continued to reel in until several of the bolts securing the winch to the truck frame sheared. One of the bolts struck the air line severing it and the fluid was spilled onto the pad. WSA Safety and BPX Environmental was notified, the spill was cleaned up and the methanol was reclaimed. There was no injuries as a result of this incident.	Affected snow was scraped up with a shovel.	Material was melted and will be reused.	
7/28/97	1997-IR-89481	BOC	Diesel	0.10	A Peak 250 bbl Vacuum Tanker, containing a load of 99% returned seawater and 1% diesel, started fluid transfer operations at the Oily Waste Disposal skid. The tank was pressurized to 10 psi for off-loading purposes. The driver observed fluid leaking from the tanker's (driver side) rear entry hatch at the gasket area. He immediately closed all valves on the tanker, de-pressurized and applied vacuum to stop the leak, while the hatch was secured. Approx. 10 gal. of fluid spilled on the pad. A Peak Supersucker, on location at the time, was immediately dispatched for cleanup operations. The CC2A Night Lead person notified the CC2A Superintendent at 2145 hrs. and immediately followed WOA spill reporting procedures for non-emergency spills. While cleanup operations were implemented, the Vacuum Tanker's fluid transfer operations resumed. The exempt cleanup fluids were processed and injected at the CC2A Ball Mill. After an investigation, the Vacuum tanker was released to return to Peak base for further investigation and repairs. The incident was investigated by the Drilling HSE Coordinator, Peak representative and the CC2A Superintendent. It was determined that the rear side entry hatch gasket had recently been replaced on 7-28-97, after an unloading operation at CC2A Liquid Injection Skid. A Peak mechanic replaced the gasket on-site @ CC2A, then released the equipment to resume duties. A spill liner was being utilized at the tanker's rear hose connection, prior to the spill, and a "Fluid Transfer Guideline" permit was properly filled out, as well. No environmental damage to water or tundra occurred.		The class II material was disposed of at the ball mill.	A Peak vac truck unloading at CC2A Oily Waste Skid lost 10 gallons of seawater and 0.1 gallon of diesel when it blew a gasket while pressuring up. The side inspection hatch failed when the pressure reached 10 PSI.
3/25/06	2006-IR-1771614	GC-2, GC-2 Flowline spill staging area, GC2/SAT	Diesel	0.10	While fueling equipment at GC-2 flowline spill site fuel transfer pump had a crack in the pump housing which caused approximately 1 cup of diesel to spray onto the ice covered Lake area.	Shovels were used to clean affected ice.	The material was taken to T-pad storage facility.	The volume is approximately one cup. The verbal notification was made on 03/25/06 at approximately 12:45 by the GPB Environmental advisor Bill Fletcher.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
6/19/06	2006-IR-1873672	Well Pad D, Inside Well House 10 on D-Pad., GC1	Corrosion Inhibitor	0.10	Employee was working at D-Pad Well 10 hooking up an existing 3/8 Corrosion inhibitor line. A cap was stuck on the end of the tubing. Employee hit the cap with a back up wrench and the cap came off, releasing product onto the gravel in the Well house. This was residual that was left in line from disconnect. Employee scooped up the gravel that was contaminated and placed into an oily waste bag. SRT responded and picked up the bag from employee.	Shoveled into oily waste bag.	Material was taken to the Environmental accumulation bin on Santa Fe pad and will be taken to Pad 3.	The verbal notification was made at approximately 1615 hours by the GPB WOA environmental advisor. The volume is only 1 tablespoon
11/19/05	2005-IR-1622662	Well Pad H, H-36, GC2/SAT	Corrosion Inhibitor	0.10	At approximately 10:00 this morning the area chemical operator for GC2 was notified by the H-pad operator that he had discovered a corrosion inhibitor spill in the well house at H-36. The Pad operator isolated the chemical line and notified SRT at 5700. Two employees were dispatched to inspect and repair the cause of the leak. After troubleshooting the system it was determined the the source was the failure of the 3-way valve dowstream of the SKOFLO valve and the quick disconnect on the end of the test port. The failure of the 3-way valve caused the test leg to pressure up and inhibitor leaked out of the quick disconnect. All fittings have been removed for further inspection.	Sorbent material was use to wipe affected cellar boards and the affected gravel was cleaned up using a shovel.	Sorbent was taken to a NSB oily waste dumpster. The gravel will be taken to Pad 3 disposal facility.	The initial notification was called in by the GPB Environmental advisor, Bill Fletcher at approximately 01035 on 11-19-05
7/6/03	2003-IR-565783	Drill Site 13, DS-13 West side of Pad	Crude Oil	0.10	Sheen discovered on tundra.	A vactruck was used to recover the sheen and surounding water	Material was taken to Pad-3 for disposal	This is the Final Report. Note: This was a Storm Water spill that was reported to NRC, as well as all other agencies.
2/28/06	2006-IR-1741773	Well Pad C, GC-3 area, C-31well house, GC3	Corrosion Inhibitor	0.10	Chemical Operator noticed corrosion inhibitor on well house floor. SRT was notified. Chemical was noticed to be leaking from the neck seal on the valve. The valve will be brought in for inspection.	Shovels were used to remove contaminated gravel from Well House.	Pad 3 disposal facility	The verbal notification was made on 02/28/06 by the GPB West Environmental advisor at approximately 1700 hours.
4/4/07	2007-IR-2214732	Drill Site 18, DS18 manifold bldg at Corrosion Inhibiotr tank, FS1/SIP/STP	Corrosion Inhibitor	0.10	Operator discovered CI leak from tank inside DS18. Appears to be from side of 6" stubbed out inspection port on tank. Small amount on deck of DS cleaned up and secondary containment in place.	Rags were used to wipe up the spill.	Contaminated rags were disposed as oily waste.	Secondary containment in place. CIC to de-inventory tank and inspection of tank will begin after deinventory.
11/30/05	2005-IR-1635500	Well Pad K, K-7, GC1	Corrosion Inhibitor	0.10	SKOFLO leak at K-7. SRT called. Actual cause still under investigation.	Hand tools were used to remove contaminated gravel.	Pad 3 disposal facility	Verbal notification was made by GPB enviromental advisor Jim Short at approximately 0255 am.
10/2/07	2007-IR-2427988	Haz Waste Processing Facility, GPB Hazardous Waste Process Facility, Non Process Area	Mercury	0.10	A crate of presumed hydrocarbon test cylinders were delivered to the hazardous waste process facility for disposal. Upon inspection it was determined that some of the cylinders contained a small amount of mercury and had potentially contaminated the floor and ramp where they had been staged. A mercury clean-up kit was used to contain and remove any residue that may have been present.	A mercury clean up kit was used to clean up potential contamination.	Collected clean up material will be sent out on an upcoming waste shipment.	Initial agency notifications were made via phone on 10/3/07 at approx. 1650 hours.
1/9/07	2007-IR-2118950	Niakuk, Niakuk Well 12, GPMA	Corrosion Inhibitor	0.10	After performing a short RCFA for the NIAKUK well 12 spill, here are a few of the findings that stick out. The spill was caused from a failed cup seal in the neck of a C model SkoFlo valve. There are not any visible flaws in the seal. As you will see in an attached picture the drip pan design does not sit under the entire valve. Jamie suggests an additional drip pan be added to all the NIAKUK wells. While the operator was shutting in the corrosion inhibitor he noticed a drip coming from a Haskell check valve at the tree. We have discovered that this valve is chattered the same way that we have found in the past. The Drill site operator was performing well work at the time of the spill. He was able to isolate the valve in a short amount of time. The operator said that the system pressure never went above 2,000 PSI while he was working on the well.	Hand tools were used to remove contaminated gravel.	Material went to Pad 3 for disposal.	Agencies were notified of release. This spill was approx. a Half pint.
9/19/02	2002-IR-318000	Access Road, Shoulder of Spine road near FS #1	Motor Oil	0.10	Chip seal emulsion was blown by wind from application wand onto tundra. as technician was applying emulsion 1/32 of a gallon (1 cup) was blown onto tundra. SRT arrived on the scene and provided volume estimate. All parties were notified in a timely fashion.	Recovered material with absorbents.	Material disposed of as oily waste.	Immediate notifications made to the appropriate agencies.
4/26/02	2002-IR-211394	PM-2, PM2 chemical fill line drip containment pan.	Corrosion Inhibitor	0.10	Corrosion inhibitor drip pan (containment) for fill connection had a film of inhibitor on the bottom. Warm weather melted snow causing an accumulation of free liquids in the drip pan. High winds of up to 50mph gusts whipped up the free liquids into a froth and sprayed the adjacent snow.	Recovered material with hand tools/Bobcat loader and placed into dump box for disposal.	6 cu. yrds of material taken to pad 3 for disposal.	Immediate notification made to the appropriate agencies.
7/26/02	2002-IR-275154	Well Pad B, B-35 skid bypass valve behind Skid 57.	Crude Oil	0.10	While safing-out B-Pad for shutdown work, the stem seal on the B-35 skid bypass valve leaked, dripping ten drops on the tundra.	Clean up was done using a sorbent pad.	Sorbent was taken to NSB oily waste dumpster	A work order has been written to replace this valve.

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
3/2/02	2002-IR-227200	Drill Site 02, Drill Site 2, Well 32b	Drilling Mud	0.10	A Pallet of Calcium Carbonate was damaged while moving it into the hopper room and when the pallet was removed from the hopper room approximately 2 cups spilled off of the pallet onto the pad.	Cleaned all of the material up with shovel.	Matreial was brought to Pad 3 for disposal.	Troopers were notified of the spill on 03/02/2002.
7/8/07	2007-IR-2335501	West Dock, Left side of causeway past the bridge on West Dock Rd., Non Process Area	Diesel	0.10	While piloting M/V Agviq from launching area on east side of West Dock rd. diesel fuel leaked out vent on starboard side fuel tank. When operator smelled fuel the operator stopped to investigate. The fuel had leaked out of containment because of a loose plug. Less than a pint hit the deck and water. The operator used absorb to contain fuel on deck and called for assistance. The Big Dipper and Fireweed responded and boomed the Agviq then assisted in the clean up of the deck. 10' x 15' sheen was observed and absorb was used to clean up. ACS Marine Supervisor Jim Nevels was notified. BP Environmental made agency notifications as required.	Aborb used to clean deck. The boat was boomed and Absorb was used to clean up.	Oily waste.	All agencies were notified of the realese.
9/22/06	2006-IR-1992339	Sag River, Sag River at the L-4 - Endicott fork., Non Process Area	Diesel	0.10	Brief Description of Incident/ Event: Five personnel were riding in a BP airboat running up the Sag. River. They had departed from the EOA-9 (Endicott) remote boom storage location. An inexperienced operator was operating the boat with an instructor (ACS Tech.) in the cab giving direction. As they approached a fork in the river, the instructor motioned to the operator to turn right to head back down the other fork to another remote boom storage site. A shallow silt bar, which was partially hidden in the wind chop of the water, suddenly came into view. It became apparent to the operator and instructor that the boat was not turning fast enough to avoid the silt bar. There was a moment of indecision by the operator causing him to power down the throttle. The instructor took control of the stick and tried to turn and power out to avoid running up on the silt bar and the boat went into a sideways slide. The boat slid onto the silt bar and port edge of the hull caught on the silt bar. The sudden stop rolled the boat over on its port side and ejected the three people from the bench seat on deck out onto the silt bar. The operator and instructor were thrown to the port side of the cab with the instructor landing on the operator. They quickly pushed the front window out and escaped. The boat engine had stopped and immediately the operator shut off the battery switch and the fire extinguisher was recovered and staged. No fire developed. After determining that no one was seriously injured, they evaluated the condition of the boat. It was noted that the fuel tank line was leaking and a sheen was forming. A seat cover was recovered and placed under the leaking fuel. To further stop the leak, the crew decided to attempt to right the boat. The crew righted the boat by pushing on the cage causing it to roll back over. A containment berm was constructed in the silt. They then utilized the radio and called for assistance. Personnel at the boat launch site responded with another airboat and transported them back. No oil sheen was visible by the time the other boat arrived on scene. Two of the crew members were taken to MCC clinic for an evaluation. One person had some superficial abrasions and a sore calf. The other person had not sustained any apparent new injuries but has a current back condition and wanted to be evaluated to make sure . No new injuries were discovered. All of the personnel involved were instructed several times to report if there are any changes in their medical status. Personnel from Alaska Clean Seas responded to the sight and were able to tow the damage airboat back to the boat launch area. It was loaded on a trailer and transported to ACS Base for evaluation and repairs.	Absorbent pads were used to try and recover as much of the sheen as possible.	Absorbant pads were disposed as oily waste.	The actual material spilled was gasoline.
1/4/05	2005-IR-1194716	Well Pad D, D-11, GC1	Corrosion Inhibitor	0.10	A small spill was discovered in the vicinity of the Skoflo valve.	Shovels were used to remove contaminated gravel from Well Cellar	Pad 3 Disposal facility.	Verbal notification was made on 01-04-05.
6/5/03	2003-IR-529673	Drill Site 16, DRILL SITE 16 WELL 23	Corrosion Inhibitor	0.10	BUSHING LEAK AT CHEMICAL INJECTION FLANGE ON DRILL SITE 16 WELL 23	Material was recovered using hand tools and oily waste bags.	Material was taken to pad-3 for disposal	Immidiate notifications were made
9/3/07	2007-IR-2392206	Well Pad J, J PAD Mod 59, GC2/SAT	Corrosion Inhibitor	0.10	The special projects foreman identified a CI release on the west side at J Pad Mod 59 at approx. 1600 while making rounds. The release occurred from a slow drip on the exterior of the Mod at the chemical fill location. The breach was between the hose fitting and the valve fitting before the drylock. The release was to the ground surface. It appeared that the secondary containment that would normally be under the fittings had blown back from high winds. SRT was notified and responded at the same time as the HSE Advisor. SRT cleaned up the release with shovels and disposed of affected gravel in oily waste bags.	Contaminated gravel was shoveled up and placed in an oily waste bag.	Material was disposed of according to direction of BP Waste Coordinator.	Verbal notification on 9/3/07.
7/11/03	2003-IR-565338	Cold Storage Pad/Bldg, Cold Storage Pad	Diesel	0.10	Ladder-4 was being set up for an annual pump test, durilng the set up portion a fuel leaked from the gas cap (approx 1 cup) was noted, the leak entered into the pond.	The diesel sheen on the pond water was removed with absorbent pads. The contaminated gravel was shoveled into oily waste bags for disposal transportation.	All of the contaminated gravel will be taken to Pad-3. All of the absorbent material has been taken to an approved NSB oily waste dumpster.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
11/5/03	2003-IR-669515	Well Pad B, B-17	Methanol	0.10	Two employees were performing an MIT on the IA of B-17. The test was to be done with methanol due to the fact that B-17 is a water injection well. Employees’ pressure tested the system with diesel to 3000psi. Once it was determined the pressure test was successful, employees began to pump methanol into the inner annulus. As the pressure reached 2000psi employee noticed a small leak in the hose near the triplex. Employee immediately shut the pump in and notified Veco Dispatch. SRT was notified and arrived on scene. SRT estimated approximately 1 pint of methanol made contact with the pad. SRT removed contaminated gravel for disposal. A small pin hole in the hose was detemined to be the cause. The hose was a 1/2 X 50Ft high pressure hose. The hose was put in service on 3/6/03. Hoses are tested on an annual basis.	The contaminated snow and gravel was removed with shovels and chipping bars. The material was then placed in oily waste bags for transportation.	Contaminated snow will be melted and reused on an approved job. Contaminated gravel will be shipped offsite as hazardous waste.	
5/24/06	2006-IR-1846090	Flow Station 2, Tundra, east of FS2, FS2/COTU	Diesel	0.10	A 55 gallon drum of hydrocarbon was discovered on the tundra while performing spring monitoring and sampling as a result of the FS2 flare release that occurred last winter. The drum is lying on it's side, partially submerged in a tundra pond. A small amount of free product and oil sheen are visible around the drum.	Sorbents placed around drum to contain sheen and free product. The drum will be removed from the tundra. The drum was put in an overpack as soon as spring thaw conditions permitted. Drum removed from the tundra on 7/7/06.	The drum was taken to the GPB Hazardous Waste Processing Facility where fluids will be tested and and disposed appropriately.	
10/12/07	2007-IR-2436779	PM-2, GPB, Point Mac-2, Methanol Tank, GPMA	Methanol	0.10	A methanol release was reported by a C-Pad Chemical Delivery Driver at PM 2 during a fill. The release occurred at the Dry Lock/Cam Lock connection and was possibly caused by a damaged adaptor or the hose itself. The driver identified the breach after the pump was started and immediately shut down the pump and reversed the flow. The material was released into the secondary containment and the driver estimated that approx. 1/2 cup fell to the ground. The driver commented that a large duckpond was used but because of the significant winds that night, some of the material release was blown past the boundaries of the pad. The C-pad foreman, Ops Manager, and SRT were immediately notified. The area was immediately cleaned by removing affected gravel and disposing of the debris in an oily waste bag. The hose setup in its entirety was replaced and the fill was completed successfully. The defective hose setup was taken out of service.	Absorbent pads were used to clean up the secondary containment. The contaminated gravel was shoveled up and bagged.	The contaminated absorbent pads and gravel were taken to the Greater Prudhoe Bay Hazardous Waste Coordinator.	
3/14/05	2005-IR-1281203	Well Pad X, X pad (X-15 CI injection panel), GC3	Corrosion Inhibitor	0.10	Chemical Operator was contacted by VECO tubing crew that there was a leak on the CI injection system on X-15. SRT was notified by the tubing crew. After further investigation the operator found the discharge fiter before the SKOFLO panel, was weeping chemical out the seal integrity hole of the filter body. This well (CI injection) had been placed in service 24 hours prior, after weeks of being shut in. The operator shut the CI system down for another check of all wells.	Recovered material with hand tools and placed into appropriate container for transportation to hazardous waste module.	Material taken to hazardous waste processing module for sampling and final disposal.	
1/29/03	2003-IR-425266	Well Pad Y, Y-Pad Well 03	Methanol/ Water (50/50)	0.10	While well was shut in for a close proximity drilling job, a 3/4" ball valve connected to the flowline S-riser dripped from a body seal leak. This well is a PWI and normally runs at 120 degrees F. While the wellhouse was off and the flowline freezed protected with 50/50 methanol/water, the ambients were as low as -30 degrees F. This allowed the body seal ring to shrink enough to allow a drip. The flowline was shut in and had a very small amount of pressure on it for the entire duration. The well was blown in with snow and this drip was not found until the well was prepared for a wellhouse reconnect.	The contaminated snow was removed from the pad using hand tools and placed in plastic bags for transportation.	Contaminated snow will be melted down and reused on an approved job.	
6/16/03	2003-IR-539946	Well Pad E, E-19	Methanol/ Water (50/50)	0.10	Operator for Well Pad E discovered a drip at a flanged connection near the reserve pit. The bolts in the flange were found torqued less than required. The flange bolt inadequate torque settings could be a result of temperature cycles on the PBGL piping, as it is needed for intermittently to kick-off E-19. Operator was able to scoop the contaminated gravel into a recepticle for proper disposal. Spill volume was estimated at 1 pint.	All of the contaminated gravel was shoveled into an oily waste bag with hand tools and taken to the proper disposal facility.	Contaminated gravel will be taken to the Grind and Inject facility.	
4/28/02	2002-IR-211686	Well Pad L, L-110	Corrosion Inhibitor	0.10	Chemical Operator was filling and pressurizing a chemcial injection line connected from Skid 519 to the wellhead injection point and a loose swedgelok fitting allowed a pint of corrosion inhibitor to leak on the snow. The chemical injection system, including this line, was pressure tested with Nitrogen by Norcon and witnessed by FCO before turn-over to Production.	The contaminated snow and gravel was shoveled into a bag for transportation.	The contaminated snow and gravel will be taken to Pad-3.	
6/28/00	2000-IR-95081	Spine Road	Lube Oil	0.10	The equipment operator was roading a compactor, #6 104, from the Kuparuk River Bridge to Z-pad. She was traveling down the right side of the road. A road grader was working ahead of her and had created a small berm in the road. The operator was on the short side of the road created by the berm and decided to cross over to her left so she wouldn't be driving on the berm. As she started her move to the left she caught sight of a pickup that was beside her. Not wanting to hit the pickup, she turned the compactor steering wheel quickly to the right causing the compactor to drive off the right side of the road and down the shoulder. The compactor came to a stop on an angle of the right side of the road bank. There was no damage to the pickup or the compactor. Ther were no injuries. The compactor was set back on the road with a crane and front end loader. However, there was a spill to a tundra pond.	The sheen was skimmed using sorbent material.	The sorbent will be disposed of in an oily waste dumpster.	

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
5/12/05	2005-IR-1367257	Well Pad S, In the wellhouse leaking from fitting on the Chemical injection system., GC2/SAT	Corrosion Inhibitor	0.10	At approximately 8 p.m., the pad operator discovered corrosion inhibitor leaking from a fitting on S-108. The operator called SRT and cleaned up the spill which was estimated to be 1/2 cup. The chemical crew was notified to repair the fitting.	Sorbent material was used to wipe affected area.	The sorbent material was taken to an oily waste dumpster.	
12/4/04	2004-IR-1153358	Well Pad F, G-47, GC1	Corrosion Inhibitor	0.10	The well pad operator discovered a leaking fitting on the tubing line on well tree. Operator stopped the leak and contacted SRT.	Shovel was used for removing the contaminated gravel from the well cellar.	Taken to the GPB Waste Coordinator for proper disposal.	
3/5/03	2003-IR-453637	L-4	Methanol	0.10	After freeze protecting well, root valve on the down commer dripped about a cup of methanol onto the top of the hydralic panel bleed drum. - No methanol hit the ground.	Material released into storage drum.	Material was reused for freeze protection.	
9/20/05	2005-IR-1551474	Well Pad A, A-13, GC3	Corrosion Inhibitor	0.10	Chemical operator found a leaking isolation valve on the SKOFLO rate control panel at A-13 well. SRT was called. The valve is being brought in for inspection.	The contaminated gravel was shoveled into an oily waste bag for disposal transportation.	Contaminated gravel was taken to Pad-3.	
8/16/03	2003-IR-617816	Well Pad T, On tundra at toe of pad immediately across from solid waste cell access ramp	Crude Oil	0.10	Reported to NRC, ADEC, DNR, and NSB and described the spill site as "a DEC permitted solid waste site that is under corrective action" and that the spill was "discovered by DEC on Aug 16 during a solid waste site inspection" , that "no cleanup was necessary and the sheen is no longer visible", and that "the spill was reported 8/16 after my review and interpretation of the analytical data.". I also received a call back from Bob Blankenburg. He said he will still be referencing the sheen in his report but will clearly state that we also found the oily absorbent pad, which was removed and that the sheen had disappeared after that within a couple of days. I had told him that we had sampled the sheen but we did not discuss the results. Bob said that he will simply ask us to keep an eye on the area next spring to check for any recurrence of the sheen.	None necessary. Sheen disappeared.	No cleanup therefore no disposal.	
3/21/01	2001-IR-101066	EWE Pipeline	Hydraulic Fluid	0.10	Operator was using loader to remove snow along side the slack loops between U Pad" and the Pig House, when he noticed hydraulic fluid dripping from the Balderson Ram. The operator shut down the equipment called for support. HCC HSE Rep and Spill Responce responded to site, made proper notifications, cleaned area and disposed of spilled material as per HCC procedures. Appromixately one cup of hydraulic fluid impacted the right of way and was cause3d by a failed fitting.	Hand tools were used to remove contaminated snow.	Material will be taken to pad 3.	
3/31/01	2001-IR-101150	EWE Pipeline	Hydraulic Fluid	0.10	Volvo Loader was being used to lift shoes on to a VSM. Operatoer stopped and noticed the hydraulic fluid was dripping from the unit. The operater immediately moved the loader from the ice road to a pad. Where a containment was placed. Other spots were found near VSM 318-338 on the ice road near W-Pad. Approximately 15 drops were acounted for between the VSM's. Mechanic fixed the equipment noting the problem was the right tilt hose.	Material was cleaned up using hand tools.	Material will be taken to Pad-3.	
4/14/04	2004-IR-870160	Well Pad G, G-Pad, 3-way valve on chemical injection tubing., GC1	Corrosion Inhibitor	0.10	During a Chemical Line walking speed survey being conducted by a chemical operator on G-Pad, an area was located that appeared to have an "old leak". It was not leaking at the time of the discovery. All fittings were checked for tightness, 5700 was called, supervisory notifications made, and cleanup of 2 cups of corrosion inhibitor was completed. All was contained in snow, with none having made it to the gravel pad.	Contaminated snow has been removed with hand tools and was placed into oily waste bags for disposal transportation.	T-Pad Storage Pit	
7/23/03	2003-IR-574398	GC-1 Pad	Lube Oil	0.08	A BP employee noticed a small oil sheen on a puddle of water next to the GC-1 pad. He immediately contacted #5700 and reported the incident. A spill technician was dispatched and a sample was taken.	Oil sheen was collected by trapping sheen with sorbent boom and then using sorbent pads to recover material on water's surface.	Contaminated sorbent material was taken to the WOA solid waste storage facility.	This incident was initially reported to ADEC on 7/23/03 @ 11:25am.
6/27/07	2007-IR-2317943	Flow Station 3, GPB, FS# 3 , Module 4925, dripped on floor., FS3	Corrosion Inhibitor	0.07	Operator discovered a leak of about 1 cup of produced water corrosion inhibitor DVE4D018 from a stainless steel T fitting on the suction line of a chemical pump. Drippage was wiped up and fitting was secured will be repaired or replaced.	Spill was wiped up with absorbents.	Absorbents sent to oily waste.	
11/3/07	2007-IR-2458760	Drill Site 13, Alaska / GPB / EOA / FS-3 / DS-13 / well 22, FS3	Produced Water	0.07	Drillsite 13 Well 22 surface safety valve (SSV) actuator primary & secondary seals failed, releasing a small quantity of produced water to pad surface.	Spill Response Team notified - contaminated gravel to be removed from well cellar for disposal.		

Table A-1
1970 -11/15/2007 Spill Data - BPXA
(Sorted by Volume)

Spill Date	BP Tr@ction Report #	Location, Specific Area	Material Released	Gallons	Event Description	Clean-up Actions	Disposal	Additional Information
1/7/06	2006-IR-1684226	West Gas Injection, WGI wellhouse 4., Non Process Area	Methanol	0.06	Employee was assisting hot oil company on a circ-out job located at WGI-4. He did not have a crew, and was in charge of the choke skid. After rigging up the skid, the hot oil company's pump crew began pumping methanol into the return tanks to ensure all lines were clear and thawed for the job. After freeze protecting the lines, the employee prepared to pump down the inner annulus to take returns out of the tubing through the choke and into and open top tank. When he was finished he returned to the choke to prepare for the pumping. Upon start-up employee noticed a steady stream of fluid coming out of the valve stem on the choke and going on to the ground. He opened up the opposite end of the choke so that fluid would still pass, and closed off the defective side of the choke. He immediately placed a containment under the valve. Approximately ½-1 cup of methanol spilled onto the ground. Notification of the spill was made, although the type of material was not stated. Initially, this was thought to be KCL and a spot clean-up (non-reportable release). It was later determined to be 100% methanol and classified as a reportable spill.	A shovel was used to recover the contaminated snow.	Contaminated snow will be melted down and used for freeze protection.	Release reported initially on 1/7/06 was thought to be KCl and not agency reportable. However on 1/8/06 team identified that material released was 100% methanol, an immediately reportable substance when released.
7/29/06	2006-IR-1921317	Well Pad S, S-Pad Well # 33, GC2/SAT	Corrosion Inhibitor	0.06	The leak was found, reported, cleaned up and the repairs already made by the pad operator. The operator stated that while he was in the well house performing routine well house checks he noticed a small leak on the gas lift piping. He reported the spill to SRT and investigated further. He found a loose swagelok fitting on the tubing end of a recently installed check valve. The operator tightened the fitting 1/4 turn. The operator cleaned up the chemical and went on about his day.	Material was cleaned up with absorbent and taken to NSB oily waste dumpster	Contamiated absorbent was taken to NSB oily waste dumpster.	Spill was a cup of corrosion inhibitor that spilled onto a cellar board in a 6" area.
1/22/05	2005-IR-1216468	Well Pad E, E-14 wellhouse , GC1	Methanol	0.06	E-pad operator was doing daily environmental checks and readings and found E-14 had a small leak coming from a needle valve on the s-riser. The operator replaced the needle valve and called x5700 Spill Hot line. ACS determined 1 cup had been relased to gravel inside of the wellhouse.	Hand tools were used to clean affected snow and gravel in Well house.	The material will go to Pad 3 disposal facility.	Verbal notification was made 1/22/05 @ 2316
5/9/06	2006-IR-1827360	L-3, L3-19 Well House under the wing valve stem, GPMA	Methanol	0.06	The Drill Site Operator found methanol dripping from the wing valve stem packing during the daily well head check. The well has been shut in, 10/05 since the tubing was plugged during the last time it was tried to put on production. The most recent well work activity was to pump 5 bbls methanol into the tubing before pressuring up to 2000 psi then de-presured to 550 psi.	Hand tools were used to recover the contaminated material and put into oily waste bags for disposal.	Contaminated material was taken to G&I for disposal.	Immediate notifications were made
11/29/04	2004-IR-1144921	L-5, L5-4 wellhouse: downcomer, GPMA	Methanol	0.06	DSO found the corrosion coupon on the L5-4 downcomer in the well house to weep methanol freeze protect fluid.	Hand tools were used to shoveled up approx .5 cu ft contaminated gravel from wellhouse floor.	Material went to Haz Waste Processing Facility for disposal.	Agencies were notified.
8/22/06	2006-IR-1950981	C Pad, CPAD Warehouse-Inside Floor, Non Process Area	Sulfuric Acid	0.06	When the CPAD Shipper was staging 4 pallets of used batteries to be sent for recycling he noticed a clear liquid under one pallet. Shipper notified Floor Lead to keep area clear. x5700 was contacted. Proper PPE was put on and baking soda was applied to liquid to neutralize the fluid in case it was acid based. Liquid foamed and subsequent PH test revealed acidic numbers. Environmental and SRT arrived for inspection. MSDS was reviewed and clean up of 1/2 cup neutralized fluid was completed. Batteries were re-bagged and palletized. No leaking batteries were discovered. Acid based fluid origin is believed to have been rainwater seepage through the bag during transport and contact with the corrosion on old battery terminals. Actual source is unknown.	Shipper notified Floor Lead to keep area clear. x5700 was contacted. Proper PPE was put on and baking soda was applied to liquid to neutralize the fluid in case it was acid based. Liquid foamed and subsequent PH test revealed acidic numbers. Environmental and SRT arrived for inspection. MSDS was reviewed and clean up of 1/2 cup neutralized fluid was completed. Batteries were re-bagged and palletized. No leaking batteries were discovered.	Per SRT procedures. Neutralized with Baking Soda, rags were placed in clear bag, labelled and staged for Haz Waste disposal with NS Dept (x4810).	
4/29/06	2006-IR-1814179	Fab Shop, A1 / W1 Warehouse on the Santa Fe Pad (WOA), Non Process Area	Sulfuric Acid	0.06	Norcon is using the A1 / W1 warehouse as their piping fab shop for the Water Wheel # 3 Project. On Saturday the 29th of April at 2:20 pm the Crown electric pallet hand jack was being removed from the charger to be used to move a pallet of duplex piping. The employee noticed that there was a puddle of liquid running from the bottom of the motor control housing. The employee opened the door to find that one or two of the batteries were leaking battery acid from the bottom of casings. It was hard to determine if one or both batteries were leaking so SRT disposed of both. The spill consisted of 1 cup of battery acid leaking on to the concrete shop floor. The employee placed Nut Plug around the leak to contain/barricade the battery acid in one area. Employee placed Red Danger tape to keep people out of the area and from the use of equipment. Norcon safety contacted the 5700 non-emergency line and SRT was dispatched to the spill. SRT checked the level of PH in the spilt battery acid on the concrete floor; the results were between 4 and 5 on the scale. SRT used a mixture of water and soda ash to dilute the battery acid and then cleaned the area up with 17¿x 19¿ absorbent pads. SRT double bagged the waste and removed from the fab shop. NOTE: The Crown electric hand pallet jack was on loan from the valve shop and had been left outside of the shop in a snow bank and not working prior to Norcons use. Norcon did have an electrician check and inspect the wiring and components inside the motor control center before using the equipment. Everything checked out and the batteries were not leaking any battery acid at the time of inspection.	The liquid spots on the floor were neutralized using a soda ash & water mixture. The liquid was then wiped up using absorbent pads. The damaged batteries were removed and taken to the hazardous waste process facility.	Contaminated material was taken to the Hazardous Waste Process Facility and will be tested for ph and properly disposed of.	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/15/86	86360116601	Sohio Alaska Petroleum Company	y	D-Pad,	Drilling muds	1,050,000	Being vacuumed up	Interim Containment	
3/17/97	97399907601	ARCO	y	Drill Site 14, ARCO SEAWATER SURFACE BROACH DS 4	Seawater	995,400	Field Visit/s, Final Report 06-14-97		Leak
6/21/86	86360117201	ARCO Alaska, Inc.	y	DS 3, Pit 5,	Drilling muds	420,000		Unknown	Entered final report date after determining from Brad Fristoe that no cleanup would have been feasible or necessary on reserve pit fluids.
6/1/91	91360215201	ARCO Alaska, Inc.	y	FS 2, 99.5% in containment area, .5% misted onto tundra	Produced water	357,000	Super vac, pumps, graders used. gravel to pad 3, fluids injected at creataceous well.	Multiple	Sand jet outlet block valve failed/cracked. 6/6 cleanup still going on. Efforts hampered by meltwater spill (194 bbls) at DS 11.
3/2/06	06399906101	BPXA	y	Flowline between GC1 and GC2, GC-2 Oil Transit Line Release	Crude	267,000	Field Visit/s, Other 08-31-06		Corrosion
12/19/06	06399935301	BPXA	y	Gathering Center 2 (GC-2), GC-2 Tank 8511 Spill	Produced Water	234,738	Phone Follow-up, Includes emails phone calls other letters NOS 06-04-07		Unknown
8/25/83	83360123701	Sohio	y	R Pad Reserve Pit, 10,000 sq. ft. tundra.	Drilling muds	147,000	Diked, sorbents, boom.	Unknown	Cause: Reserve Pit seepage. 2000' of stream bed effected. Entered from old records 7/5/90.
9/25/82	82360526801	ARCO Alaska, Inc.	y	Pt. McIntyre #1 & 2, Old Gulf site north of pit area.	Drilling muds	75,600	Unknown	Unknown	No final report on this spill and very little information. Entered from old records 4-28-90.
6/3/71	71360115401	ARCO Alaska, Inc.	y	BP side of ARCO airfield, Prudhoe, Contained within diked area	Av fuel	45,000	Fuel being recovered, hauled away and incinerated.	Incinerated	JP 4 spilled when snow equipment hit pillow tank during winter. Discovered after thaw.
8/21/00	00399923401	BPXA	ym	West Prudhoe Bay,GC-2 PRODUCED WATER HANDLING SECT, GC-2 CRUDE/MEG SPILL	Crude	30,030	Field Visit/s, Case Closed 08-14-01		Equipment Failure
6/18/04	04399917001	BPXA	y	Flow Station 2 (FS-2), FS-2 Process Water Release	Produced Water	28,350	Field Visit/s, Case Closed 06-28-07		Valve Failure
2/19/01	01399905002	BPXA	y	West Prudhoe Bay, BETWEEN D-PAD AND GATHERING CENT, GCI D-Pad FLOWLINE RUPTURE	Crude	25,500	Field Visit/s, Case Closed 08-30-02		Human Error
12/10/90	90360134401	ARCO Alaska, Inc.	y	DS L5, Gravel pad	Crude	25,200	Vac trucks, graders, loader removed snow/gravel. taken to pad 3 swdp.	Approved Landfill	
2/7/90	90360203801	ARCO Alaska, Inc.	y	Underneath PBOC living quarters, B Wing, Pooled beneath PBOC module	Other	24,000	Based on analysis of material, it will not be removed. no disposal required.	None Required	Broken pipe spilled laundry wash water. Qty. reported 2-8-90. Analysis: BOD 17, Fecal Coliform 4, all equivalent to background values.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/28/89	89360120903	ARCO Alaska, Inc.	y	FS 2, contained on pad under module	Produced water	21,000	Super sucker used on liquid, loader for gravel. gravel taken to nsb sowp, liquid to pad 3	Multiple	Approx. 42 gal crude, 20,958 gal produced water. Blocked valve caused actuator bonnet to blow. Ammended report phoned in listed amount at 21,000 gal.(168 gal crude, 20,832 produced water). Final report contained original amount of 6300 gal. Amended final
1/5/72	72360100501	ARCO Alaska, Inc.	y	BP side ARCO airfield-Prudhoe, 20 x 30 ft 2 in. thick on snow	Diesel	20,000	Snow being removed, hauled to dump to be burned.	Incinerated	Employee filled pillow tank too full, weight of snow forced fuel out short breather pipe. Entered from old records 4-12-91.
8/22/81	81360123401	ARCO Alaska, Inc.	y	COTU Fuel Storage Tanks, Contained within gravel dike	Diesel	18,900	Vac truck, absorbents. some diesel put into tank for reuse, contaminated diesel injected, pads incinerated.	Multiple	Entered 11-2-89 from old records.
12/21/81	81360535501	Sohio	y	A Pad south central reserve pit, Not given	Drilling muds	16,800	Not given	Not Given	Entered 2-21-90 from old records. Follow up date 3-16-82.
12/22/89	89360235601	ARCO Alaska, Inc.	y	DS 11 Well 8 north of FS 2., Between two pits on pad	Seawater	14,910	Fluids being sucked up, will be melted, injected at pad 3.	Subsurface Injection	Leak from injection line. 2 pm update changed volume from 3-400 BBLs, also gave cause as suspected corrosion. Cutler phone call 12-28, Hanson indicates 355 bbls cleaned up.
11/7/95	95399931101	BPXA	ym	West Prudhoe Bay, Y PAD BEHIND WELL 7,	Seawater	12,600	Field Visit/s, Case Closed 01-00-00		Corrosion
12/18/02	02399935201	ConocoPhillips Alaska	ym	West North Slope, B.P. PRICE PAD.,	Drilling Muds	12,118	Phone Follow-up, Case Closed 06-09-03		External Factors
3/30/88	88360109001	ARCO Alaska, Inc.	y	DS 3 to FS 2, 6 different areas along common line (Maybe more)	Crude, some produced water	11,800	In process	In Process - Still Cleaning Up	Pipe has numerous leaks, more are being found as cleanup is going on.
2/26/02	02399905701	BPXA	y	West Prudhoe Bay, Well Pad A,	Source Water	11,611	Phone Follow-up, Case Closed 10-01-02		Other
8/4/87	87360121602	Standard Alaska Production Com	y	G Pad, 50 cubic yards overflowed reserve pit.	Drilling muds	11,340	Pumped out of tundra	Interim Containment	
2/12/83	83360104402	ARCO Alaska, Inc.	y	OW Injection Facility,	Glycol	10,500	Delining area/pumping/constructing casement. injected.	Subsurface Injection	update report received 9/22/88. To be excavated this summer. Entered from old records 4-9-91.
11/14/85	85360131801	ARCO Alaska, Inc.	m	Prudhoe Bay Fuel Terminal,	Gasoline	10,500	Vacuumed up with vacuum truck		
6/2/85	85360115302	ARCO Alaska, Inc.	y	Prudhoe Bay PBOC,	Crude	10,000		Not Given	
11/1/96	96399930604	ARCO	y	SIP,	Seawater	9,695	Took Report, Case Closed 07-08-97		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/10/89	89360131402	BPXA	y	Well A 13, Contained on pad and in reserve pit	Produced water	9,600	Process of scraping snow for melting, recycling. frozen material will be recovered during spring dewatering.	Recycled	Drain pipe left open on tiger tank. Cutler went to site, video-taped cleanup.
8/19/06	06399923101	BPXA	y	Well Pad S,	Seawater	8,695	Phone Follow-up, Final Report 08-21-06		Rollover/Capsize
10/31/82	82360130401	ARCO Alaska, Inc.	y	Diesel Storage Tank (PBOC), Prudhoe Bay, Diesel contained by dike under module.	Diesel	8,400	Vacuum truck and crew removed liquid, ice, & snow.	Multiple	Reprocess diesel thru COT. Snow & ice taken to landfill. Entered from old records 4-28-90.
6/5/91	91360215601	ARCO Alaska, Inc.	y	DS 11, 5 x 5 sheen on tundra and gravel	Other	8,168	Supersucker removed liquid, absorbents removed sheen. liquid injected pad 3, sorbents incin. nsb.	Multiple	99.9 meltwater, .1 methanol overflowed dike from thaw. Interim 6/9 completed grid sampling. Flushed areas. DNR okayed sandbags. Water removed until non-detectable levels methanol.
8/1/02	02399921301	BPXA	y	Lisburne Production Center (LPC), Lisburne Production Center Release	Produced Water	6,301	Phone Follow-up, Case Closed 08-26-02		Valve Failure
1/5/90	90360200501	ARCO Alaska, Inc.	y	SIP (seawater injection plant), Gravel pad	Seawater	6,300	Loader with bucket and dump truck used. melting and reusing by placing it back into same sip tank.	Recycled	Material discharged out of unsecured hatch while filling tanker.
12/19/06	06399935301	BPXA	y	Gathering Center 2 (GC-2), GC-2 Tank 8511 Spill	Crude	6,300	Phone Follow-up, Includes emails phone calls other letters NOS 06-04-07		Unknown
8/9/83	83360122101	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, PAD	Gasoline	6,200	Gravel removed		FINAL REPORT 9/6/83
11/26/86	86360933302	ARCO Alaska, Inc.	y	CGF-Prudhoe Bay,	Therminol 59	6,000	Substance drained into lined pit/vacuumed up	Recycled	
3/2/00	00399906204	ARCO ALASKA	ym	East Prudhoe Bay, CGF MODULE 4907,	Drag Reducing Agent	6,000	Field Visit/s, Case Closed 04-23-00		Unknown
5/27/03	03399914701	BPXA	y	Flowline between GC1 and Q Pad, LDF Y-36 Flowline Release	Crude	6,000	Field Visit/s, Case Closed 01-15-06		Corrosion
3/6/01	01399906501	BPXA	y	East Prudhoe Bay, G1 FACILITY, SURFCOTE PAD, G1 SURFCOTE PAD SPILL	Drilling Muds	5,880	Field Visit/s, Case Closed 03-08-01		Corrosion
8/7/95	95399921901	BPXA	y	West Prudhoe Bay, GC 1, BP GLYCOL SPILL	Ethylene Glycol (Antifreeze)	5,700	Field Visit/s, Case Closed 01-00-00		Line Failure
8/16/97	97399922801	ARCO	y	West Prudhoe Bay, ARCO.,	Therminal	5,700	Phone Follow-up, Case Closed 08-15-01		Leak
2/19/01	01399905001	BPXA	ym	East Prudhoe Bay, DRILL SITE 7 WELL-8, DS-7 WELL-8 BLOWOUT	Seawater	5,345	Field Visit/s, Case Closed 03-07-01		Corrosion

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/4/04	04399933901	BPXA	y	Well Pad Z, Z-Pad Produced Water Release	Produced Water	5,250	Field Visit/s, Case Closed 11-10-05		Seal Failure
6/10/99	99399916101	ARCO ALASKA	ym	EAST NORTH SLOPE, DS14, WELL29 FLOWLINE, Drill Site 14 Flowline Blowout	Produced Water	5,107	Field Visit/s, Includes emails phone calls other letters NOS 10-27-00		Corrosion
8/6/06	06399921801	BPXA	y	Flow Station 2 (FS-2), Flow Station 2 Transit Oil Line Release	Crude	5,040	Field Visit/s, Letter Of Interest Issued 12-29-06		Corrosion
1/8/86	86360100801	ARCO Alaska, Inc.	y	Crude Oil Topping Plant,	Gasoline	4,957	Vacuumed up with vacuum truck	Recycled	
3/26/97	97399908501	ARCO	y	East Prudhoe Bay, DS 16 WELL 18, ARCO DRILL SITE 16 SPILL	Crude	4,914	Field Visit/s, Case Closed 05-29-97		Line Failure
4/6/97	97399909601	ARCO	y	East Prudhoe Bay, CGF,	Drag Reducing Agent	4,670	Phone Follow-up, Case Closed 05-29-97		Valve Failure
6/3/05	05399915401	BPXA	y	Lisburne Production Center (LPC),	Produced Water	4,600	Took Report, Case Closed 06-06-05		Line Failure
6/24/87	87360117502	ARCO Alaska, Inc.	y	DS 11, Area around reserve pit	Reserve pit fluids	4,500	Unknown	Unknown	
11/17/90	90360232102	BPXA	y	N Pad east of skid 56, Tundra adjacent to pad	Seawater	4,500	Area flushed with 315,000 gal. water. damaged section of flowline removed. no disposal given.	Not Given	Corrosion failure in flowline. No damage apparent due to extreme cold (-25). Interim 11-25. Final indicates area to be monitored after breakup.
5/29/02	02399914904	BPXA	y	Flow Station 2 (FS-2), Flow Sta 2 Produced Water Release	Produced Water	4,469	Field Visit/s, Case Closed 08-16-02		Valve Failure
11/21/80	80360132602	ARCO Alaska, Inc.	y	D5 Well 16 Prudhoe, Snow on pad	Diesel	4,284	Snow removed, taken to pingut pit. area will be inspected during breakup to remove any residual.	Approved Landfill	Entered 2-5-90 from old records. Buried fuel line broken, possibly by fork lift operator.
4/24/81	81360111401	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU ST B, Not given.	Gasoline/napa	4,282	In spring, will vacuum water in diked area. dirty water, hydrocarbons will be injected at pad 3.	Subsurface Injection	Valve left open during fuel transfer. Gravel dry, not fuel soaked.
4/16/73	73360110601	ARCO Alaska, Inc.	y	Prudhoe Bay Airstrip, 500' S. of COTU, Gravel/sand/silt/runoff waters.	Jp 4	4,262	Due to porous nature of surface, no fuel could be recovered.	Other	Product JP 4 spilled when nozzle came off end of hose.
12/31/80	80360136601	ARCO Alaska, Inc.	m	Well B2, Contained on pad	Drilling muds	4,200	Vac truck used, liquid injected. pads, rags used on residual, incinerated.	Multiple	Data entered 9-22-89 from handwritten records. 50/50 mud/oil base spilled when gasket on flexible connection failed. Low temp made mud cleanup easy.
10/16/86	86360128901	ARCO Alaska, Inc.	y	Crude Oil Topping Unit,	Diesel	4,200	Vacuumed it up	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/25/89	89360126803	ARCO Alaska, Inc.	y	Seawater Injection Plant, Tundra. 200 feet long x 100 feet wide	Seawater	4,200	Containing leak, using vac truck. water flushing out salinity.disposal will be injection.	Subsurface Injection	Mixture seawater and/or produced water leaking at 2-3 gal/min. Water in tundra is 6-7000 micro mhos conductivity. Area around leak is thawed, all else freezing up. Mike Frampton reported 10-20-89 97% recovery.
7/17/99	99399919802	BPXA	y	BP, WOA, F PAD,	Natural Gas	4,200	Took Report, Case Closed 07-20-99		Other
1/1/05	05399900102	BPXA	y	Gathering Center 2 (GC-2),	Methylene Glycol	4,200	Phone Follow-up, Case Closed 01-10-05		Gauge/Site Glass Failure
11/2/86	86360930601	ARCO Alaska, Inc.	y	CGF Plant,	Therminol	4,000	Vacuumed up	Subsurface Injection	
2/28/03	03399905902	ASCI	y	MCC Fuel Dock, MCC Fuel Dock Release	Diesel	3,576	Field Visit/s, Final Report 09-30-03		Equipment Failure
3/2/86	86360106101	ARCO Alaska, Inc.	y	Prudhoe Bay Surfcote Yard,	Diesel	3,400	Sucked up w/vacuum truck	Multiple/see Comments	Hydrocarbons recycled/Snow contained within secondary containment area
7/15/97	97399919602	ARCO	y	EAST NORTH SLOPE,ARCO DS4.,	Seawater	3,360	Phone Follow-up, Case Closed 01-00-00		Leak
11/5/87	87360130901	ARCO Alaska, Inc.	y	DS 11,	Soapy water	3,150	Contaminated snow scraped up	Interim Containment	
11/10/89	89360131404	ARCO Alaska, Inc.	y	DS 15 Well 13, Contained in adjacent reserve pit where it froze.	Seawater	3,150	Spilled material will remain in pit until breakup when it will be injected.	Interim Containment	Delay in reporting because spill was contained in berm and overflow goes into pit. Discussion with Anchorage prior to reporting decided this was considered a spill since pit not lined, so report called in.
7/31/91	91360521201	ARCO Alaska, Inc.	y	DS L4 Well 36, 30 x 30 sq ft gravel pad. 50 ft stream or spray	Drilling muds	3,150	Super sucker, vac truck picked up fluid. loader will remove gravel. fluid to bp to inject. gravel to pad 3 sw pit.	Multiple	99% drilling mud, 1% (126 gal.) diesel discharged because of hole in annulus of well. Spilled out of casing of cellar onto pad. Initial volume 1260, final indicates 3150.
5/28/02	02399914801	BPXA	y	Seawater Injection Plant (SIP),	Seawater	3,150	Phone Follow-up, Case Closed 08-14-02		Overfill
01/04/07	07399900401	ENI Petroleum	ym	Rock Flour Well Site, ENI Rock Flour #2 Drilling Mud Spill	Drilling Muds	3150	Field Visit/s, Case Closed 09-25-07		Leak
5/20/03	03399914001	BPXA	ym	SPINE ROAD, DEADHORSE,	Drilling Muds	3,030	Phone Follow-up, Case Closed 05-21-03		Leak
2/20/76	76360105201	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU STORAGE TANKS, PAD	Crude	3,000	Absorbed with snow		
6/8/89	89360115903	Dowell Schlumberger	m	DS Yark, Prudhoe, contained on pad	Other	3,000	Loader and shovels. taken to solid waste dumpster. will be disposed of according to state requirements.	Interim Containment	Carbolite Sand, 3000 pounds quantity. Final report contains data sheet on carbolite sand.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/10/95	95399906901	PRUDHOE BAY STORAGE	y	PRUDHOE BAY STORAGE PAD, PB STORAGE PAD/TEXAS IRONWORKS	Diesel	3,000	Field Visit/s, Case Closed Transferred To CSITES 03-15-96		Line Failure
2/20/76	76360105101	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU STORAGE TANKS, 70 FEET NORTH AND WEST OF TANK	Crude	2,940	Absorbed with snow	Incinerated	
5/9/89	89360112901	ARCO Alaska, Inc.	y	DS 18, Well 21, snow on pad	Gelled water	2,940	Vac truck used to remove fluid. snow will be removed when rig is moved. material and contaminated snow will be taken to lined reserve pit at ds2	Interim Containment	Mixture 98% fresh water, 1% gel, 1% barite, During drilling operation valve left open, material overflowed well cellar onto pad.
1/18/91	91360201801	BPXA	y	A Pad, Contained on pad	Seawater	2,940	Loader removed snow and ice. material taken to t pad pit.	Approved Landfill	Faulty flange on tiger tank.
4/17/05	05399910701	BPXA	y	Drill Site 14,	Produced Water	2,940	Field Visit/s, Case Closed 07-06-05		Unknown
1/22/01	01399902201	BPXA	ym	West Prudhoe Bay, R-PAD, WELL 3-AI, R-PAD WELL 3AI INJECTION WELL	Diesel	2,856	Field Visit/s, Case Closed 09-30-02		Human Error
8/4/90	90360221601	BPXA	y	Z Pad Squeeze unit, No tundra or water	Produced water	2,730	Sorbents used, gravel removed, taken to pad 3.	Approved Landfill	Peak truck backed into tank, cracked tank.
3/30/91	91360208901	BPXA	y	N Pad Skid 54, Snow/insulation/gravel	Seawater	2,730	21,840 gal fresh water added to spill area. removal of material would cause enviro damage. salt levels not in excess of those that cause veg. damage	Other	Flowline carrying water to well head leaking. Seawater soaked into gravel below flowlines. Area inaccessible for gravel removal. With additon of water, salt levels will not be excessive enough to cause vegetative damage. Enviro damage would occur if grav
1/28/83	83360102801	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, Contained within dike	Gasoline	2,604	Majority evaporated. residual will be cleaned up in spring.		
1/28/83	83360102802	ARCO Alaska, Inc.	y	COTU Prudhoe, Contained in diked area.	Gasoline	2,604	Will clean up in spring.	Interim Containment	Entered from old records 6/16/90.
12/15/01	01399934904	BPXA	y	Well Pad A, Flow Sta 2 Produced Water Release	Produced Water	2,600	Field Visit/s, Case Closed 08-16-02		Equipment Failure
12/19/91	91730235301	BPXA	y	D Pad Well 8, Reserve mud pit on pad	Produced water	2,523	Snow/gravel removed by loader. taken to t pad.	Approved Landfill	VECO overfilled tiger tanks. 12/23 Nadem inspected pad. Frozen prod. water from well house to reserve pit. 12/30 Girard inspected. Same as above. Also found contractors working on D-8 on duty other than cleanup.
4/30/82	82360112001	ARCO Alaska, Inc.	y	COTU, Surfcoat Fuel Storage Area, Gravel pad under the tank.	Diesel	2,520	Vacuum tank for free diesel.	Multiple	Diesel injected at pad #3 and snow taken to NSB landfill. Entered from old records 4-28-90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/20/87	87360126301	ARCO Alaska, Inc.	y	Srill Site 11, Area approximately 10' X 20' feet on tundra	Crude	2,520	Sucked up liquid w/vacuum truck-cont. gravel scrap	Liquid Injected-gravel To Landfill	
12/29/88	88360136402	SAPC Endicott	y	Z Pad, Well 33, contained in reserve pit adjacent to Rig AU-2	Crude	2,520	Loader removed mud from reserve pit	Approved Landfill	during emergency 58.8 bbls oil-phase mud, 2 bbls crude discharged
6/19/97	97399917001	BPXA	ym	EAST NORTH SLOPE, B.P CFP MODULE 53.,	Other	2,520	Took Report, Case Closed 01-00-00		Other
8/16/02	02399922801	BPXA	y	Well Pad A, Well Pad A-22 Explosion/Fire	Methyl Alcohol (Methanol)	2,520	Field Visit/s, Case Closed 12-15-05		Other
1/27/06	06399902701	BPXA	y	Drill Site 13, Drill Site 13 Crude/Methanol Spill	Methyl Alcohol (Methanol)	2,514	Field Visit/s, Case Closed 08-24-06		Line Failure
10/6/81	81360127901	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, Contained in diked area and pit	Naptha	2,500	Contaminated snow removed. taken to nsb landfill.	Approved Landfill	FOLLOW-UP 12/18/81, 10/26/81. Tank overfilled either due to sticky valve or operator failed to close valve.
12/13/86	86360934701	ARCO Alaska, Inc.	y	Pad Three,	Crude/glycol/brine	2,310	Contaminants scraped up	Approved Landfill	
6/29/75	75360118001	ARCO Alaska, Inc.	y	West Beach Drill Site, Gravel pad	Diesel	2,200	Vac truck, absorbents. removed top layer of gravel and replaced with new. took material to landfill.	Approved Landfill	Entered from old records 4-12-91.
5/25/85	85360114502	ARCO Alaska, Inc.	y	Surfcoat Tanks,	Diesel	2,100	Skimmed diesel from top of water in dike	Subsurface Injection	
4/5/86	86360109501	ARCO Alaska, Inc.	y	Prudhoe Bay COTU,	Fuel oil	2,100	Vacuumed up	Recycled	Product Arctic fuel.
8/16/87	87360122801	Standard Alaska Production Com	y	GC-2 Flare Pad, Area around flare stack	Crude	2,100	Vacuumed liquid/contaminated gravel scraped up	Liquid To Gc-2 Ullage/gravel Washed	
8/16/88	88360122901	Standard Alaska Production Com	y	GC-2 Flare Pad, contained on gravel pad	Crude	2,100	Scraped with bucket loader/fluid with vac. truck	Multiple/see Comments	during plant upset oil released through flare stack
11/25/89	89360132902	ARCO Alaska, Inc.	y	U5A behind bldg on MCC pad, Contained on pad	Diesel	2,100	Material removed, snow dike built, vac truck used on free liquid. free liquid recycled as test fluid, gravel to nsb sowp.	Multiple	Camlock vibrated off while heating diesel. Cleanup report 11-28. 32 cy materials to SOWP. 10-8-90 UPDATE: Residual contam. under bldg. Will drill/sample.
8/13/90	90360222501	ARCO Alaska, Inc.	y	FS 3, Contained on pad	Produced water	2,100	Super sucker removed fluids and gravel. fluids to slop oil for reuse, gravel to pad 3.	Multiple	Level equalized between 2 vessels being drained, material discharged out open manway.
10/5/95	95399927801	M-I DRILLING FLUIDS	y	East Prudhoe Bay, DS 6-3 (ARCO),	Other	2,100	Phone Follow-up, Case Closed 01-00-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/19/01	01399905002	BPXA	y	West Prudhoe Bay, BETWEEN D-PAD AND GATHERING CENT, GCI D-Pad FLOWLINE RUPTURE	Methyl Alcohol (Methanol)	2,100	Field Visit/s, Case Closed 08-30-02		Human Error
5/20/03	03399914002	BPXA	y	EAST OPERATING AREA PRUDHOE BAY, GRIND & INJECT,	Drilling Muds	2,100	Phone Follow-up, Final Report 05-21-03		Equipment Failure
9/9/04	04399925301	BPXA	y	Well Pad Z, Z-Pad Doyon Drilling Seawater Spill	Seawater	2,100	Field Visit/s, Case Closed 09-23-05		Human Error
05/26/07	07399914601	BPXA	y	Well Pad W, BP West Prudhoe Bay	Drilling Muds	2100	Took Report, Final Report 05-31-07		Leak
3/31/91	91360209001	ARCO Alaska, Inc.	y	Point McIntyre, Contained on pad	Other	2,016	Bermed with snow. vac truck and loader removed snow. snow melted, injected pad 3.	Subsurface Injection	Brine water leaked when 3 in. ball valve failed, causing leak to liner which also had hole and leaked to pad.
1/15/82	82360501501	Sohio	y	A Pad, Not given.	Drilling muds	2,000	Not given.	Not Given	Entered 3-12-90 from old records.
6/14/95	95360916501	ARCO	y	LPC MODULE 492, GRAVEL PAD	Other	2,000	Hand labor removed spill from pad. taken to pad 3 swdp 7/5/95.	Approved Landfill	FLO 1010 PIPELINE BOOSTER. GEL-LIKE SUBSTANCE.
5/19/99	99399913901	BPXA	y	BP, WOA, D PAD, D-Pad Spill	Diesel	2,000	Field Visit/s, Case Closed Transferred To CSITES 12-03-01		Unknown
1/6/00	00399900603	PEAK OILFIELD/ARCO ALASKA	y	East Prudhoe Bay, DRILLSITE 9,	Seawater	2,000	Took Report, Case Closed 01-07-00		Overfill
11/21/82	82360132501	ARCO Alaska, Inc.	y	COTU, Gravel dike	Gasoline	1,890	Material evaporated. will check pit in spring for any residual hydrocarbons.	None Required	Gas backflowed from blend tanks. Entered from old records 4-9-91.
10/15/90	90360228801	Halliburton Services	y	DS 18 Well 11, Gravel pad	Gelled water	1,890	Super sucker used, taken to pad 3.	Approved Landfill	Gelled water spilled when frac tank overfilled.
5/12/82	82360113201	ARCO Alaska, Inc.	y	Crude Oil topping Unit, Prudhoe Bay, Remained on gravel pad inside dike area for tanks.	Naptha	1,800	None taken at time of final report. appears that majority had evaporated. any residual to be removed in the spring.	Unknown	Error was made in valve positioning-result: overfilled tank. Entered from old records 4-28-90.
8/23/89	89360123501	ARCO Alaska, Inc.	y	CGF Flare Pit, contained in gravel dike flare pit	Antifreeze	1,800	Most material burned by flaring activities during release. contaminated water in pit removed by vac truck. taken to pad 3.	Approved Landfill	60% glycol, 40% water leaked when line in heat trace system developed a leak.
12/2/90	90360233603	Alaska United Drilling	y	DS 15 Well 4, Reserve pit and pad	Seawater	1,764	84 gal. cleaned off pad, put in dumpster. 1680 gal. frozen in reserve pit.	Interim Containment	4 gal. C-193 corrosion inhib. mixed with 1760 gal. seawater.
10/30/01	01399930302	BPXA	ym	West Prudhoe Bay ACCESS ROAD,	Hydrochloric Acid	1,764	Took Report, Complaint/Report Received 11-08-01		Collision/Allision
1/25/85	85360102502	Sohio	m	Sag 11 preproduction facility,	Glycol	1,740	Material vacuumed out of dyked area	Subsurface Injection	
4/30/97	97399912001	ARCO	ym	WEST PRUDHOE,WEST PAD,	Crude	1,732	Field Visit/s, Case Closed 08-15-97		Leak
1/2/86	86360100201	ARCO Alaska, Inc.	y	Lisburne L-2 Temp Prod Fac,	Crude	1,689	Soaked up w/absorbent pads/pumped	Recycled	
5/25/03	03399914501	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	1,681	Phone Follow-up, Case Closed 06-09-03		Corrosion

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/26/83	83360126901	ARCO Alaska, Inc.	y	FS 1/LPS Mod., None	Antifreeze	1,680	Vacuum truck	Unknown	Cause: Overflow on open ended line. Entered from old records 7/10/83.
12/15/85	85360134901	ARCO Alaska, Inc.	y	Prudhoe Site 18,	Crude	1,680	Sucked up	Not Given	
3/26/91	91360208501	BPXA	y	Z Pad Well 18, Contained on pad	Seawater	1,680	Standing water vacuumed up. slush/ice removed with grader/loader. all materials hauled to t pad lined pit.	Interim Containment	Manhole cover improperly bolted shut when off loaded.
5/28/82	82360914801	ARCO Alaska, Inc.	y	Crude Oil Topping Unit, Prudhoe Bay, PBF Storage Tank Area.	Reformate	1,600	Vacuum truck + evaporation.	Subsurface Injection	Leak at manway. Entered from old records 4-28-90.
9/21/99	99399926404	BPXA	ym	West North Slope, GC-1 PAD MOD 525,	Ethylene Glycol (Antifreeze)	1,600	Phone Follow-up, Case Closed 12-15-99		Equipment Failure
12/24/00	00399935901	BPXA	y	BULK FUEL FACILITY, TANK #3, BOC Bulk Fuel Facility Overfill	Diesel	1,512	Field Visit/s, Case Closed 12-16-02		Overfill
10/10/06	06399928301	BPXA	y	Gathering Center 2 (GC-2), GC-2 Meg Release	Glycol, Other	1,500	Phone Follow-up, Case Closed 12-18-06		Containment Overflow
11/16/83	83360132001	ARCO Alaska, Inc.	y	DS 18, Prudhoe, Contained in reserve pit.	Crude	1,470		Not Given	Entered from old records 7/27/90.
8/21/00	00399923402	BPXA	y	West Prudhoe Bay, GC-2 PRODUCED WATER HANDLING SEC, GC-1 PWH CRUDE/MEG SPILL	Ethylene Glycol (Antifreeze)	1,470	Field Visit/s, Case Closed 08-14-01		Equipment Failure
6/10/99	99399916101	ARCO ALASKA	ym	EAST NORTH SLOPE, DS14, WELL29 FLOWLINE, Drill Site 14 Flowline Blowout	Crude	1,277	Field Visit/s, Includes emails phone calls other letters NOS 10-27-00		Corrosion
1/8/81	81360100801	Sohio	y	Mobile Tract, Well 13, 15, 11, 12, Not given.	Drilling muds	1,260	Not given.	Not Given	Entered in RBase 9-25-89 from old records. Follow up 7-16-81
12/12/81	81360534601	Sohio	y	E Pad, south end, Not given	Drilling muds	1,260	Not given	Not Given	Entered 2-21-90 from old records.
12/28/85	85360136201	ARCO Alaska, Inc.	y	DS Maintenance J-Pad,	Crude	1,260	Scraped up - steamed	Recycled	
8/10/88	88360122302	ARCO Alaska, Inc.	y	DS L4, Well 11, gravel pad	Diesel/crude	1,260	Area diked off, vac truck used and absorbents	Multiple	
9/10/88	88360125404	ARCO Alaska, Inc.	y	L-4 #11, not given	Diesel	1,260	Diked area, vac truck, absorbents	Approved Landfill	Valve broken loose.
12/30/88	88360136503	ARCO Alaska, Inc.	y	Seawater Injection Plant, contained on pad	Seawater	1,260	Snow picked up with loader	Recycled	vac truck overfilled
12/31/88	88360136602	ARCO Alaska, Inc.	y	Seawater Injection Plant, contained on pad	Seawater	1,260	Snow picked up with loader	Recycled	valve on vac truck not completely closed during loading

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/26/90	90360117702	ARCO Alaska, Inc.	y	SIP Produced Water Well 1-2, Gravel pad.	Other	1,260	Removed water puddles w/ supersucker. gravel left in place. lab analysis revealed tph < 2 ppm.	Subsurface Injection	Type: Possibly contaminated melt water caused by the melting of permafrost. Well used to inject produced water. Permafrost melted & flooded well cellar.
12/15/91	91730134901	ARCO Alaska Inc.	y	COTU under MOd 4903, 75 x 75 snow covered pad	Diesel	1,260	Handshovels, super sucker used. frozen water/diesel will be removed in spring. recovered material reused by ds maintenance.	Recycled	On recorder. Trying to assess leak and exact cause. Initial volume reported as 210 gal.
3/29/97	97399908804	ARCO	y	East Prudhoe Bay, DS 9,	Methyl Alcohol (Methanol)	1,260	Field Visit/s, Case Closed 01-00-00		Valve Failure
5/1/02	02399912101	BPXA	y	L-1 Module,	Ethylene Glycol (Antifreeze)	1,260	Took Report, Final Report 05-31-02		Equipment Failure
9/11/04	04399925502	BPXA	y	Seawater Injection Plant (SIP),	Seawater	1,260	Took Report, Final Report 09-14-04		Human Error
4/12/05	05399910201	BPXA	y	Drill Site 14, Drill Site 14 Crude Oil Spill	Crude	1,260	Field Visit/s, Letter Of Interest Issued 02-07-06		Line Failure
6/19/89	89360117005	ARCO Alaska, Inc.	m	ARCO Chemical Bldg, Deadhorse area next to Happy Horse, Lake w. of pad has light sheen.	Diesel	1,232	Absorbent booms used, containment dike around tank pumped, ditches dug/pumped. vac trucks used. sorbents to nsb incin, material to fs1 for recycle.	Multiple	2000 gal. storage tank leaked. Material migrated to lake w. of pad, creating light sheen. Areas inspected, no contamination observed. Will monitor and remediate if necessary.
10/20/98	98399929301	NABORS	y	POINT MCINTYRE, BP, RIG 33E,	Drilling Muds	1,210	Took Report, Case Closed 11-18-98		Overfill
1/27/98	98399902701	B.P.	y	B.P., West North Slope, GC-3.,	Crude	1,200	Field Visit/s, Case Closed 01-00-00		Line Failure
10/30/01	01399930301	BPXA	y	U Pad, U Pad Acid Spill/Truck Rollover	Source Water	1,200	Field Visit/s, Case Closed 07-25-02		Rollover/Capsize
4/10/85	85360110003	Kodiak Oilfield Haulers	y	Niakuk #5, Sohio Rig #2,	Crude	1,134		Not Given	
8/30/04	04399924302	BPXA	y	Drill Site 15,	Drilling Muds	1,134	Took Report, Final Report 09-07-04		Human Error
5/2/06	06399912201	BPXA	y	Flow Station 3 (FS-3), Flow Station 3 Produced Water Spill	Produced Water	1,122	Field Visit/s, Case Closed 06-28-07		Seal Failure
9/24/83	83360126701	ARCO Alaska, Inc.	y	FS 1, Prudhoe, None	Antifreeze	1,108	Vacuum truck	Unknown	Entered from old records 7/10/83.
6/30/96	96399918202	BPXA	ym	West Prudhoe Bay, MUKLUK PAD, MUKLUK 200 GALLON	Diesel	1,100	Field Visit/s, Case Closed 01-03-97		Puncture
2/17/05	05399904801	BPXA	y	Drill Site 11, Drill Site 11 Methanol Release	Methyl Alcohol (Methanol)	1,090	Field Visit/s, Final Report 06-02-05		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/17/96	96399910802	BPXA	y	West Prudhoe Bay, GC 2, GC2 BP CRUDE/PROD WATER	Crude	1,075	Field Visit/s, Other 10-23-97		Corrosion
4/17/96	96399910802	BPXA	y	West Prudhoe Bay, GC 2, GC2 BP CRUDE/PROD WATER	Produced Water	1,075	Field Visit/s, Other 10-23-97		Corrosion
10/17/82	82360129001	ARCO Alaska, Inc.	y	FS 1, Prudhoe Bay, Crude remained on gravel pad under slop oil tank.	Crude	1,050	Snow dike built and vacuum truck removed free liquid.	Multiple	Liquid disposed at Pad 3 and snow & gravel removed to NSB landfill. Entered from old records 4-28-90.
12/12/82	82360134601	ARCO Alaska, Inc.	y	DS 14 Well 27, Gravel pad and drilling pit	Crude	1,050	Snow scraped into reserve pit. pad scraped to gravel. no oil on gravel or tundra. no disposal given.	Not Given	Multiple errors causing incorrect flow line valve to be left open. Entered from old records 4-10-91.
5/18/85	85360113802	SOHIO Alaska Petroleum Company	y	GC-2, Pipe rack near skid 40,	Crude	1,050	Holding tank will be built to put contaminants in	Subsurface Injection	
3/27/89	89360108601	ARCO Alaska, Inc.	y	DS 14, Well 37, Area 150' x 1400'. Underlying tundra not affected.	Crude	1,050	Loader used to remove material and snow on pad. loaders and dump trucks being used to remove material and snow on tundra.	Approved Landfill	Coupling on flowline parted at welded joint and discharged material onto pad and wind blew material in fine mist onto tundra. Material and contaminated snow will be melted down and taken to Pad 3 for disposal. No environmental damage occurred. Area wil
3/25/90	90360208401	BPXA	y	GC 3 Skid 301, Contained on pad below pipe rack.	Seawater	1,050	Loader, shovels removed snow, taken to a3w2 melt tank for recovery.	Recycled	Overpressurization ruptured seawater pipeline.
5/29/90	90360214901	ARCO Alaska, Inc.	y	SIP, Contained on pad	Seawater	1,050	Super sucker used, gravel removed by loader. fluid injected pad 3, gravel taken to pad 3.	Multiple	Valve not completely closed, leaked over 45 min. period.
8/16/02	02399922801	BPXA	y	Well Pad A, Well Pad A-22 Explosion/Fire	Seawater	1,050	Field Visit/s, Case Closed 12-15-05		Other
5/24/06	06399914402	BPXA	y	Drill Site 11, DS 11, EOA, Seawater Release	Seawater	1,050	Field Visit/s, Final Report 06-26-06		Corrosion
5/11/90	90360113102	ARCO Alaska, Inc.	y	WGI 7, Gravel pad	Diesel	1,008	Absorbents used, loader, handshovels. absorbents to nsb incin., gravell to pad 3.	Multiple	Material under rig cleaned up 5-25.
2/2/01	01399903301	DOWELL SCHLUMBERGER/BPX AK	y	East Prudhoe Bay, NORTHERN GAS INJECTION PAD WELL,	Crude	1,008	Took Report, Case Closed 02-10-01		Overfill
6/8/81	81360115901	ARCO Alaska, Inc.	y	DS 12, Contained on pad.	Diesel	1,000	Ditched ice/snow, frozen gravel from 20 ft to reserve pit to allow drainage. absorbents used, snow/ice removed, taken to nsb.	Approved Landfill	Entered 10-26-89 from old records.
6/12/81	81360116301	ARCO Alaska, Inc.	y	COTU, Gravel diked area	Diesel	1,000	Vac truck removed free liquid. absorbents removed remainder. liquid to ow disposal well, absorbents incinerated nsb.	Multiple	Entered 10-27-89 from old records. Diesel and crude spilled when tank liner for tank #F20 failed.
12/6/81	81360134001	Sohio	y	H Pad Camp, Not given.	Fuel oil	1,000	Not given.	Not Given	Entered 2-20-90 from old records. Follow up date 12-29-81 and 1-6-82.
5/12/83	83360113201	ARCO Alaska, Inc.	y	Arco Drill Pad 13, Contained on pad.	Diesel	1,000	Sorbents; contaminants removed. rowan and veco personnel cleaning.	Not Given	Cause: Equipment dropped on fuel tank.Entered from old records 6/25/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/1/83	83360115201	SOHIO	y	H Pad, Prudhoe Bay, 1000 sq. ft. tundra.	Other	1,000	Sorbents.	Not Given	Type: Reserve Pit Water. Cause: Melting ice/snow overflowed. Entered from old records 6/25/90.
10/24/83	83360929701	Unknown	y	AMF Turboscope, Prudhoe, Unknown	Other	1,000	Unknown	Unknown	Type: Solvents. Entered from old records 7/10/90.
11/4/83	83360130801	ARCO Alaska, Inc.	y	NCC Bldg. U-19, Prudhoe, Unknown.	Diesel	1,000	Vac truck, sorbetns.	Not Given	Caused by defective welds. Entered from old records 7/25/90.
10/26/96	96399930001	ARCO	y	LISBURNE MOD 49-20, LISBURNE 1000 GAL	Drag Reducing Agent	1,000	Phone Follow-up, Case Closed 05-29-97		Equipment Failure
3/13/00	00399907301	BPXA	y	West Prudhoe Bay, Well Pad M,	Produced Water	1,000	Took Report, Case Closed 03-20-00		Seal Failure
3/20/00	00399908006	ARCO ALASKA	ym	East Prudhoe Bay, LPC LIQUID FLARE PIT,	Crude	1,000	Took Report, Case Closed 07-08-00		Equipment Failure
7/28/02	02399920902	BPXA	y	COTU, COTU glycol release #2	Ethylene Glycol (Antifreeze)	1,000	Field Visit/s, Case Closed 08-07-02		Human Error
8/7/06	06399921901	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	1,000	Took Report, Case Closed 08-11-06		Gauge/Site Glass Failure
11/29/83	83360133301	ARCO Alaska, Inc.	y	Pad 3 Prudhoe, Unknown	Diesel	966	Vacuum/residue removed.	Not Given	Type: Diesel/H2O/Crude/Gel. Entered from old records 7/30/90.
10/16/02	02399928901	BPXA	y	Flow Station 3 (FS-3), FS-3 Common line release	Crude	966	Field Visit/s, Final Report 11-30-02		Equipment Failure
3/29/97	97399908803	BPXA	y	West Prudhoe Bay, GC 2 PAD,	Produced Water	924	Took Report, Case Closed 04-28-97		Equipment Failure
8/14/91	91730222601	BPXA	y	R Pad Skid 54, Contained on pad	Produced water	900	Absorbents used. material bagged. loader removed remainder. sorbents to nsb incin., gravel to pad 3 owp.	Incineration/approved Landfill	-0-
09/10/07	07399925302	BPXA	y	East Prudhoe Bay, LISBURNE PRODUCTION CENTER, BP-LPC	Crude	880	, Complaint/Report Received 09-12-07		External Factors
11/14/85	85360931801	Sohio Alaska Petroleum Company	y	W. S. W. Skid 312, -0-	Methanol	840	Contaminated snow/gravel scraped up w/bucket *	Subsurface Injection	Follow-up Recd 11/22/85 - Contaminants melted/injected into GC-1 Ullag
11/29/86	86360133301	Standard Alaska Production Com	y	F Pad, Well 23, -0-	Oil phase mud	840	Vacuumed liquid-soaked w/sorbents-scraped contamin	Multiple/see Comments	Liquid recycled-sorbents and contaminants incinerated
3/25/87	87360108401	Standard Alaska Production Com	y	J-Pad, Skid 52, -0-	Crude	840	Liquid vacuumed/contaminants scraped up	Multiple/see Comments	Liquids to GC-3 Ullage System/Contaminants to J-Pad Reserve Pit
5/2/88	88360112301	Standard Alaska Production Com	y	GC-III, Skid 454, -0-	Crude	840	Contaminants scraped up	Interim Containment	contaminated gravel taken to NSB Oily Waste Landfill Pit

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/19/89	89360105005	ARCO Alaska, Inc.	y	DS L5, Well 1, contained on 50' x 20' gravel pad	Seawater	840	Absorbents, vac truck, loader	Multiple/see Disposal	during drilling, material leaked from flange/nipple connection
5/21/89	89360114103	ARCO Alaska, Inc.	y	DS 14, Well 14, Contained on pad underneath and next to manifold	Seawater	840	Vac truck used, material disposed of at pad 3	Approved Landfill	Leak in seawater injection line.
7/15/89	89360119604	ARCO Alaska, Inc.	y	DS 15, Well 16, contained on pad	Seawater	840	Vac truck used on liquid, taken to pad 3 disposal well.	Subsurface Injection	Steam coil developed internal leak causing seawater to escape from arctic pack tank.
12/16/89	89360135002	ARCO Alaska, Inc.	y	DS L2, Pad and reserve pit which has perimeter liner.	Diesel	840	Vac truck removed fluid, absorbents used. material to pad 3, absorbents to nsb incinerator.	Incineration/approved Landfill	Spill noted morning of 12/17. Cause unknown, but suspect valve left open on supply tank while being filled the night before.
3/5/90	90360506401	ARCO Alaska, Inc.	y	West Gas Injection Pad, Well 5 Doyon drilling #9, Contained on pad	Drilling muds	840	Vac truck used. loader picked up snow/gravel. liquids reused, snow/gravel to nsb owp.	Multiple	75% drilling mud, 15% diesel, 10% crude spilled during thaw operation. 2 " well head gate valve leaked under pressure. Timmons on site inspection.
12/9/90	90360534301	ARCO Alaska, Inc.	y	DS 9 Well 47, Gravel pad	Drilling muds	840	Vac truck, scraper used. material placed back down well.	Recycled	No hydorcarbons.
2/9/92	92730204001	VECO	y	GC 1, 10 x 60 ice on pad	Seawater	840	Vac truck used; flushed w/fresh water, vacuumed. injected gc1.	Subsurface Injection	Vac tank overfilled.
3/25/06	06399908403	BPXA	y	Seawater Injection Plant (SIP), Seawater Injection Plant Release	Seawater	840	Phone Follow-up, Case Closed 07-17-06		Line Failure
4/19/85	85360110901	Sohio	y	GC-2 Skids 481 and 4A, -0-	Glycol	800	Vac truck, lined dyked		-0-
2/20/91	91360105102	ARCO Alaska, Inc.	y	Pad 10, 30 x 40 x 4 on pad	Diesel	800	Heavy equip. removing snow. some went under atco unit which may need to be removed to clean under. cleanup ongoing.	Not Given	Fuel supply line cut during snow removal. Update 3-7 Completed cleanup of this spill, but found evidence of older spill. Reviewing history of pad for options.
12/31/99	99399936501	ARCO ALASKA	ym	East Prudhoe Bay, CGF MODULE 4907,	Other	800	Took Report, Complaint/Report Received 01-11-00		Valve Failure
2/22/06	06399905301	BPXA	y	Seawater Injection Plant (SIP), SIP MEG Spill	Ethyl Alcohol (Ethanol)	800	Field Visit/s, Case Closed 08-31-06		Line Failure
11/9/90	90360231302	BPXA	y	Z Pad Water tank, Contained on pad	Produced water	756	Vacuumed up fluid in reserve pit, reinjected. ice left in reserve pit.	Subsurface Injection	Rear hatch on tank being repaired not tightened enough.
9/18/99	99399926103	BPXA	y	West Prudhoe Bay, GC-2 MOD 408,	Ethylene Glycol (Antifreeze)	740	Phone Follow-up, Case Closed 09-19-99		Overfill
1/4/91	91360100401	Progressive Transport Inc.	m	Chandalar Camp, tank farm area, 20 x 60 berm area	Fuel oil	732	Snow removed, melted, separated. water injected pad 3, fuel used in waste oil heaters.	Multiple	Hose came off during transfer. Alyeska helped in cleanup, but PTI responsible party. Originally volume reported 150 gal. Updated 1-9-91.
6/21/89	89360117201	ARCO Alaska, Inc.	m	Jet Fuel depot, contained on pad	Jet-a	718	Handshovels, backhoe used on contaminated gravel. taken to nsb solid ow pad.	Approved Landfill	Mixture 4% Jet-A, 96% snowmelt water leaked from hole in dike liner.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/23/91	91360902301	ARCO Alaska, Inc.	y	DS 9 between Well 27 & 28, Lined pipeway	Methanol	700	Pumping back into well.	Recycled	Indicates this is not a "reportable spill" as it went into a lined area. Well opening not plugged.
4/11/00	00399910201	PEAK OILFIELD/BP EXPLORATION	ym	East Prudhoe Bay, SPINE ROAD,	Other	700	Took Report, Case Closed 04-12-00		Cargo Not Secured
7/13/02	02399919404	BPXA	y	COTU, COTU glycol release #1	Ethylene Glycol (Antifreeze)	700	Field Visit/s, Case Closed 08-07-02		Valve Failure
3/26/91	91360108502	Alaska Petroleum Contractors	y	DS 1 Well 10, 15 x 40 snow on gravel	Diesel	672	Snow removed, melted in open top tank, recycled fs 1.	Recycled	Valve broken off trailer while working for ARCO.
8/13/96	96399922602	BPXA	y	GC 1, SKID 326,	Crude	672	Took Report, Case Closed 01-00-00		Seal Failure
10/26/97	97399929905	ARCO	y	EAST NORTH SLOPE, ARCO CG 1.,	Hydraulic Oil	660	Took Report, Case Closed 01-00-00		Leak
2/13/05	05399904401	BPXA	y	Point McIntyre #1,	Other	660	Phone Follow-up, Case Closed 03-04-05		Overfill
12/19/89	89360135301	ARCO Alaska, Inc.	y	Pad 10, Contained on pad and in pit	Diesel	650	Loader removed some gravel, took it to nsb sowp. gravel too hard to remove more until thaw. in july trenches dug, samples taken, 100 cy gravel removed	Approved Landfill	Grader hit supports for fuel tank. It tipped and spilled. Initial amt of 500 gal. error due to inability to measure exactly while tank tipped. Interim report 12-20 changed amt from 500 to 650. TPH samples indicate additional cleanup may be required. Inter
7/12/00	00399919401	PHILLIPS ALASKA	y	East Prudhoe Bay, EAST OPERATING AREA, FLOW STATIO,	Engine Lube Oil	650	Field Visit/s, Case Closed 07-18-00		Corrosion
3/12/05	05399907103	BPXA	y	Central Compressor Plant (CCP),	Hydraulic Oil	650	Took Report, Case Closed 03-14-05		Equipment Failure
12/27/82	82360136101	ARCO Alaska, Inc.	y	DS 14 Well 29, Gravel pad	Crude	630	Vac truck used. snow/gravel piled, taken to reserve pit.	Interim Containment	While breaking out perforating cleanup lines, well mistakenly opened into cleanup line. Entered from old records 4-10-91.
11/2/83	83360130601	SOHIO	y	R Pad, Skid 54, Prudhoe, 5'x20' & 1" x 40' area.	Diesel	630	Vacuum truck/shoveled.	Unknown	Entered from old records 7/10/90.
1/22/85	85360102205	ARCO Alaska, Inc.	y	Prudhoe J-Pad,	Glycol	630	Frontend loader pickup con. snow & gravel	Approved Landfill	
8/9/86	86360122101	Standard Alaska Production Com	y	G-Pad, Well #1,	Diesel	630	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	
10/25/86	86360929801	ARCO Alaska, Inc.	y	STP Seawater Treatment Plant,	Glycol	630	Vacuumed liquid/scraped up contaminated snow	Subsurface Injection	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/30/88	88360103001	Standard Alaska Production Com	y	Well Q-1, Area around holding tank	Diesel	630	Liquid vacuumed/contaminants scraped up	Liquid Reused/contaminant Incinerat	
5/6/89	89360112601	ARCO Alaska, Inc.	y	L 5, Well 36, snow covered tundra	Drilling muds	630	Perimeter staked, snow removed using loaders and dump trucks. stockpiled on pad at ds l-5, being melted and taken to pad 3.	Approved Landfill	Vent discharged, spraying material onto snow covered tundra. Underlying tundra not affected due to snow cover. Area will be monitored this summer.
10/24/89	89360229701	Dowell Schlumberger	y	DS L4-02, Contained on pad	Other	630	Scooped with loader, taken to reserve pit.	Approved Landfill	Mixture 98% water, 2% cement.
3/27/91	91360208601	BPXA	y	B Pad, Snow/slush on pad	Seawater	630	Slush/ice removed by loader, taken to t pad lined pit.	Interim Containment	
12/3/91	91730233702	ARCO Alaska Inc.	y	DS 6 Well 23, 50 x 15 gravel pad	Seawater	630	Ongoing; show/gravel being removed. will be taken to pad 3.	Approved Landfill	On recorder.
9/12/98	98399925501	BAROID	ym	West Prudhoe Bay, BAROID PLANT TANK FARM,	Other	630	Took Report, Case Closed 10-14-99		Seal Failure
12/1/00	00399933602	BPXA	y	East Prudhoe Bay, D-PAD GREATER PRUDHOE BAY UNIT,	Crude	630	Field Visit/s, Field Visit 02-04-04		Puncture
8/11/06	06399922301	BPXA	y	Drill Site 1 (DS-1),	Seawater	630	Took Report, Case Closed 08-16-06		Corrosion
9/18/06	06399926101	BPXA	y	Well Pad A, Well Pad A Outer Anulus Crude Release	Crude	630	Field Visit/s, Case Closed 06-28-07		Unknown
06/30/07	07399918102	BPXA	y	GC 1, BP West Prudhoe Bay	Produced Water	630	Phone Follow-up, Case Closed 07-05-07		Line Failure
2/6/81	81360103702	Sohio	y	Stores Pad'1.7 Spine Road, Prudhoe, Not given.	Diesel	600	Not given.	Not Given	Entered 9-26-89 from old records. Follow up
5/4/81	81360112401	ARCO Alaska, Inc.	y	COTU fuel terminal tank storage, Contained within diked area.	Gasoline	600	Vacuumed free liquid. injected at ow injection well.	Subsurface Injection	Entered 10-26-89 from old records. Follow up date 5-14-81.
5/29/83	83360114902	ARCO Alaska, Inc.	y	FS 1, Prudhoe Bay, Unknown	Antifreeze	600	Contaminated gravel removed.	Not Given	Cause: Broach heater leak. Entered from old records 6/25/90.
8/18/96	96399923101	ARCO	y	CGF,	Hydraulic Oil	600	Took Report, Case Closed 08-30-96		Line Failure
1/22/98	98399902202	BPXA	y	West North Slope, B.P. GC-1 PAD.,	Ethylene Glycol (Antifreeze)	600	Phone Follow-up, Case Closed 10-30-98		Seal Failure
3/25/98	98399908401	B.P.	y	West North Slope, B.P. Well Pad C.,	Crude	600	Phone Follow-up, Case Closed 07-30-98		Corrosion
10/26/02	02399929901	PEAK OILFIELD SER/BP EXPLORATION	ym	West Prudhoe Bay, SPINE RD,	Drilling Muds	600	Phone Follow-up, Final Report 11-18-02		Cargo Not Secured

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/13/90	90360134703	Western Geophysical	y	CPF 1, Contained on pad	Diesel	580	Blade, loader being used. taken to cpf melter, recycled.	Recycled	Nozzle left attached to tank when driver left.
2/23/99	99399905401	BPXA	ym	West Prudhoe Bay, BP, BULK CHEMICAL BUILDING,	Other	560	Phone Follow-up, Case Closed 02-26-99		Tank Failure
3/22/86	86360108101	Kodiak Oilfield Haulers	y	Prudhoe Bay Yard,	Drilling muds/water	546	Scraped up contaminated snow	Approved Landfill	Initial information very sketchy -
8/7/00	00399922002	BPXA	ym	East Prudhoe Bay, LPC LIQUID FLARE PIT, LPC FLARE PIT SPILL	Crude	528	Took Report, Case Closed 08-14-00		Unknown
6/13/99	99399916401	PEAK OILFIELD SERVICES	y	East Prudhoe Bay, DSM YARD,	Other	510	Took Report, Case Closed 06-13-99		Equipment Failure
1/20/88	88360102001	Standard Alaska Production Com	y	Well C-3, Area between drill rig and reserve pit	Crude	504	Liquid vacuumed up/contaminants scraped up	Liquid Used/contaminants To Nsb	
1/9/89	89360100903	ARCO Alaska, Inc.	y	DS 3, Well 30, contained on 12'x30' area of gravel pad/ sw corner	Seawater	504	Loader used to remove material and con. snow	Recycled	after squeeze operation, material leaked from valve on a tank onto pad
4/11/89	89360110102	ARCO Alaska, Inc.	y	DS L5, Well 36, snow on tundra	Drilling muds	504	Perimeter of snow staked, heavy equipment currently being used to remove snow within area. will be melted and taken to pad 3	Approved Landfill	10BBls mud and cuttings, 2 bbls crude. During drilling excessive gas pressure encountered. Rapid venting necessary. Gas carried muds, cutting and crude onto pad and snow covered tundra. Deep snow protected tundra. Area will be visually monitored duri
10/21/77	77360129401	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Diesel	503	Sorbent pads and vac truck	Incineration And Injection	
2/13/82	82360104401	ARCO Alaska, Inc.	y	Storage pad C close to FS 1, Snow	Engine lube oil	500	Front end loader used and shoveled into buckets. taken to nsb owp.	Approved Landfill	Entered 4/23/90 from old records. Drain lever found in open position.
6/12/83	83360116301	ARCO Alaska, Inc.	y	FS 2, Temp. OFC Complex, None, contained under OFC	Diesel	500	Sorbents.	Not Given	Entered from old records 6/26/90. Projects Dept.
7/5/83	83360118601	ARCO Alaska, Inc.	y	PBF under auto shop, PBOC, Oil/gravel beneath bldg.	Engine lube oil	500	Diked area, vacuum truck.	Not Given	Entered from old records 6/26/90.
9/30/87	87360927301	ARCO Alaska, Inc.	y	DS 4, Area around impoundment area	Seawater w/.0l% biocide	500	Sucked up with vacuum truck	Subsurface Injection	
9/26/88	88360127003	ARCO Alaska, Inc.	y	DS Maintenance Yard, contained on pad	Glycol	500	Loader to remove gravel and snow	Approved Landfill	during maintenance, material leaked
2/5/89	89360103603	Nabors Rig 22-E	m	Rig Wolfbutton 25-6-9, contained within berm and lined containment area	Diesel	500	Absorbents	Approved Landfill	cracked valve on fuel return line

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/30/89	89360115008	ARCO Alaska, Inc.	y	Road betw. DS Maint. and L4, contained on pad	Diesel	500	Snow, gravel picked up, placed in open top tanks. gravel to be taken to temp storage at pad 3 when constructed.	Interim Containment	No initial report entered. Final report lists Janssen as contact. Cause of spill due to valve vibrating open on tanker.
2/15/98	98399904601	B.P.	y	West North Slope, B.P. Well Pad W.,	Other	500	Took Report, Case Closed 02-19-98		Overfill
3/23/98	98399908201	BPXA	ym	EAST NORTH SLOPE. B.P. GC-3 OIL SECTION.,	Crude	500	Phone Follow-up, Case Closed 06-22-98		Overfill
1/7/99	99399900704	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, ARCO, C PAD,	Seawater	500	Took Report, Case Closed 01-12-99		Line Failure
4/20/01	01399911001	BPXA	y	East Prudhoe Bay, SEAWATER INJECTION PLANT MODULE,	Seawater	500	Phone Follow-up, Case Closed 04-27-01		Corrosion
7/11/01	01399919201	BPXA	y	West North Slope GC-3 SKID 6,	Ethylene Glycol (Antifreeze)	500	Field Visit/s, Case Closed 07-11-01		Leak
01/05/07	07399900501	ASRC Energy Ser (formerly APC)	y	Drill Site 3, DS-3 Corrosion Inhibitor Spill	Corrosion Inhibitor	500	Field Visit/s, Case Closed 02-07-07		Line Failure
7/14/02	02399919501	BPXA	y	Flow Station 1 (FS-1),	Crude	475	Field Visit/s, Case Closed 08-07-02		Erosion
10/7/81	81360928001	Sohio	y	Stores Yard, BOC pad, Prudhoe, Not given.	Other	450	Not given.	Not Given	Entered 2-1-90 from old records. Product GE silicon antifoam. Follow up 11-6 and 11-9-81.
10/4/88	88360127801	ARCO Alaska, Inc.	y	DS L4, 200 square feet on gravel pad	Drilling muds	450	Absorbents/vacuum/loader	Multiple/see Comments	amulace celler overflowed
2/6/96	96399903701	BPXA	y	West Prudhoe Bay, GC 3 TANK 8512,	Crude	450	Took Report, Case Closed 09-05-96		Overfill
11/22/07	07399932601	BPXA	Y	Central Gas Facility (CGF), Central Gas Facility (CGF)	Hydraulic Oil	450	Took Report, Complaint/Report Received 11-27-07		Line Failure
05/22/07	07399914201	BPXA	y	Gathering Center 2 (GC-2), GC-2 Skid 452 Produced Water Spill	Produced Water	434	Field Visit/s, Final Report 07-03-07		Equipment Failure
1/19/81	81360101901	Sohio	y	C Pad, Prudhoe, Not Given.	Oil phase mud	420	Not given.	Not Given	Entered 9-25-89 from old records.
1/20/81	81360102001	Sohio	y	GC 2, Skid 25 West, Not Given.	Crude	420	Not given.	Not Given	Entered 9-25-89 from old records.
4/26/81	81360111602	ARCO Alaska, Inc.	y	DS 16, Well 13, Contained on pad	Diesel	420	Absorbents used, sent to nsb incinerator.	Incinerated	Entered 10-25-89 from old records. Float stuck in closed position, overfilled tank released through vent.
10/26/81	8136012992	Sohio	y	Well R 20, Prudhoe, Not given	Diesel	420	Not given	Not Given	Entered 2-9-90 from old records.
10/26/81	81360129902	Sohio	y	Well R 20, Prudhoe, Not given	Diesel	420	Not given	Not Given	Entered 2-9-90 from old records.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/7/82	82360131101	ARCO Alaska, Inc.	y	Drill Site #11, Prudhoe Bay, Stayed on gravel pad only.	Crude	420	Vacuum truck and loader.	Approved Landfill	Drain valve on tank iced up. Upon completion of perforating and linesbeing removed, plug released causing spill. Diesel was also present; ratio not given. Entered from old records 4-28-90.
12/23/82	82360135701	ARCO Alaska, Inc.	y	DS 18, Gravel pad	Crude	420	Material pushed into reserve pit. will vacuum pit in spring. no disposal given.	Not Given	Perforation flow vessel overfilled. Entered from old records 4-10-91.
1/27/83	83360102701	SOHIO	y	Mud PLT, BOC PAD, Prudhoe,	Diesel	420	Removed by loader, put in reserve pit. will be disposed of during spring cleanup.	Interim Containment	"Being investigated". Entered from old records 6/16/90.
8/27/83	83360123901	ARCO Alaska, Inc.	y/m	S. Pt./St. 1 Prudhoe, None contained on pad.	Crude	420	Gravel removed.	Unknown	Cause: Tank battery overflowed. Entered from old records 7/5/90.
11/27/83	83360133101	ARCO Alaska, Inc.	y	Pad 3 Prudhoe, Unknown	Methanol	420	Vacuum truck	Not Given	ype: Water/Meth/Diesel. Cause: Small hole worn in pipe. Entered from old records 7/30/90.
4/7/85	85360109701	ARCO Alaska, Inc.	y	FS 1,	Crude	420	Vacuum truck/contaminated snow removed	Subsurface Injection	
9/22/87	87360126501	ARCO Alaska, Inc.	y	L-2 Pad,	Drilling muds	420	Vacuumed up liquid/scraped up contaminated gravel.	Liquid Injected/gravel To Landfill	
11/12/87	87360131602	ARCO Alaska, Inc.	y	DS 16,	Dirty water/crude	420	Contaminants scooped up	Interim Containment	
1/21/88	88360102101	ARCO Alaska, Inc.	y	DS 14, Area around diesel tank	Diesel	420	Contaminants scraped up	Interim Containment	
3/12/88	88360107201	ARCO Alaska, Inc.	y	DS 9,	Unknown	420	Contaminants scraped up	Approved Landfill	
7/8/88	88360119003	ARCO Alaska, Inc.	y	SIP back pad, SIP back pad, N1/4 DS 2, Reserve Pit 3	Reserve pit water	420	Picked up contaminated gravel w/loader*		Used vac truck to suck up tundra liquid
10/5/88	88360127901	ARCO Alaska, Inc.	y	DS L4, Well 18, contained on pad	Drilling muds	420	Fluids with absorbents, gravel & snow with loader	Snow/gravel To Pit, Absorb Nsb Inci	Annulus overfilled
9/12/89	89360125501	ARCO Alaska, Inc.	y	DS 1 Manifold Building, 90% contained on pad, 10% on puddled water.	Crude	420	Absorbents used, manta ray skimmer, and supersucker. fluid injected at pad 3, gravel to nsb sowp, absorbents to nsb incinerator.	Multiple	Overfilled separator tank in building spilled 90% onto pad beneath building, 10% in impoundment area which is entirely closed off, not culverted.
12/12/89	89360134601	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Other	420	Loader removed snow/gravel, taken to nsb sowp.	Approved Landfill	10% oil, 90% water spilled when sandjet pot overtopped.
12/17/89	89360135106	Dowell Schlumberger	y	ARCO DS 13-13, Contained on pad, 40 ft diameter circle	Diesel	420	Absorbents used, snow/ice/gravel removed and disposed of by arco. sorbents to dumpster.	Incineration/approved Landfill	500 bbl tank overfilled. Area completely cleaned up, no permanent damage. J.W. Holmes indicates original spill called in to recorder and also to Jeanine. No record of either.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/24/89	89360135802	ARCO Alaska, Inc.	y	L1, 25x50 gravel pad	Crude	420	Absorbents used to soak up material, loader removed gravel. taken to nsb incinerator and nsb sowp.	Incineration/approved Landfill	50% crude, 50% diesel spilled when frozen line encountered and fluid and air had to be returned to tank; vented out top.
2/24/90	90360205501	ARCO Alaska, Inc.	y	DS 7 Well 17, Contained on pad	Seawater	420	Frozen seawater and snow removed, melted, reused.	Recycled	Inhibited seawater (1 gal. corrosion per 420 gal. seawater) spilled when high pressure nipple on water displacement line parted. Original qty of 2 bbls corrected by Hanson.
3/15/90	90360907402	ARCO Alaska, Inc.	y	DS 7 Well 34, Contained on pad and reserve pit	Methanol	420	Loaders removing contaminated material. will be melted and taken to pad 3 for disposal.	Subsurface Injection	Mixture 50% seawater, 30% methanol, 20% fresh water spilled during flowback from well.
4/11/90	90360210101	ARCO Alaska, Inc.	y	DS 17 Well 7, Contained on Pad	Other	420	Loader, rake, bucket to remove material, snow and gravel. snow melted, injected pad 3; gravel to pad 3 sowp.	Multiple	Mixture 90% fresh water, 5% frac sand, 5% methanol spilled during returns when hose plugged and pressure caused to slip from operator's hands.
8/31/90	90360224301	ARCO Alaska, Inc.	y	DS 12, Contained on pad	Gelled water	420	Super sucker & loader used. gravel taken to pad 3 sowp.	Approved Landfill	Gel water spilled when operator failed to close valve on hardline.
1/4/91	91360900402	Peak Oilfield Services	y	DS 9, 30 x 50 between tank and control room	Methanol	420	100 yds snow removed with loader, 1/4 yds gravel. snow to pad 3, gravel to pad 3 sw pit.	Approved Landfill	Hose came loose during transfer. ARCO manifested disposal.
2/13/91	91360204401	ARCO Alaska, Inc.	y	DS 11 Well 4, Snow on gravel	Seawater	420	Super sucker, loader removed material. taken to pad 3 sw pit.	Approved Landfill	Tank not empty when loaded on truck. Material drained out.
4/22/91	91360211201	BPXA	y	P Pad Well 17, Contained on pad	Seawater	420	Loader removed frozen seawater and gravel. taken to t pad pit.	Interim Containment	
5/7/91	91360212701	BPXA	y	E Pad Skid 54, Snow on pad	Seawater	420	Vac truck used. area flushed w/300 gal fresh water. <50 gal remain in snow on pad. water recycled.	Recycled	
9/24/91	91730226701	Nabors Rigging 28E	y	DS 4 Well 35 Rig 28 E, Gravel pad	Other	420	Super sucker, shovels used. disposal given as "rig crews."	Not Given	9.6 brine spilled.
11/26/95	95399933001	BPXA	y	West Prudhoe Bay, S PAD, BP 420 GAL. DIESEL	Diesel	420	Phone Follow-up, Case Closed 11-26-95		Human Error
3/12/97	97399907101	ARCO	y	East Prudhoe Bay, DS 18 WELL 21,	Crude	420	Field Visit/s, Case Closed 02-29-00		Valve Failure
3/12/97	97399907105	ARCO	y	EAST NORTH SLOPE, DS18-21,	Crude	420	Took Report, Case Closed 01-00-00		Valve Failure
6/30/97	97399918102	BPXA	y	West Prudhoe Bay, BP Well Pad A.,	Drilling Muds	420	Took Report, Case Closed 01-00-00		Human Error
12/9/98	98399934301	ARCO ALASKA, INC.	ym	East Prudhoe Bay, fLOW sTATION #1, DIRTY WATER LIN,	Produced Water	420	Took Report, Case Closed 12-09-98		Valve Failure
10/10/99	99399928302	ARCO ALASKA	y	East Prudhoe Bay, DS4 UNDERNEATH THE MANIFOLD BLDG,	Produced Water	420	Took Report, Case Closed 10-18-99		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/9/00	00399925302	BP EXPLORATION/ NABORS DRILLING	y	West Prudhoe Bay, WEST OPERATING AREA, A-PAD WELL,	Seawater	420	Phone Follow-up, Case Closed 10-09-00		Valve Failure
7/21/01	01399920201	BPXA	y	East Prudhoe Bay, LISBURNE FIELD, POINT MCINTYRE C, DRILL SITE L-2 FLOWLINE SPILL	Crude	420	Field Visit/s, Final closure pending 01-05-04		Corrosion
3/30/06	06399908902	BPXA	y	Drill Site 4, EOA DS-4 Produced Water Spill	Produced Water	420	Phone Follow-up, Case Closed 10-04-06		Line Failure
7/15/06	06399919602	BPXA	y	Drill Site 9 (DS-9), DS-9 Crude Oil Leak	Crude	420	Phone Follow-up, Final Report 07-17-07		Line Failure
8/15/06	06399922704	BPXA	y	Well Pad G,	Seawater	420	Phone Follow-up, Case Closed 08-23-06		Seal Failure
9/27/06	06399927001	BPXA	y	Seawater Injection Plant (SIP),	Seawater	420	Phone Follow-up, Final Report 10-02-06		Gauge/Site Glass Failure
07/22/07	07399920301	BPXA	y	Drill Site 12,	Drilling Muds	420	Took Report, Final Report 07-23-07		Human Error
9/23/83	83360126601	Kodiak Oilfield Haulers	y	ARCO Landing Dock/Prudhoe, None	Diesel	400	Sorbents, gravel spread.	Unknown	Entered from old records 7/10/83.
11/25/87	87360932901	Standard Alaska Production Com	m	South Module 305, Area around M.E.G. overflow tank	M.e.g./crude (60/40)	400	Soaked up with sorbents/contaminants scraped up	Sorbents To Landfill/liquid Injecte	
6/8/88	88360116001	ARCO Alaska, Inc.	m	Unknown, Unknown	Unknown	400	Unknown	Unknown	Oiltype: Brine
10/2/88	88360127602	ARCO Alaska, Inc.	y	DS 3, N13 well house, contained on pad	Diesel	400	Absorbents	Recycled	
8/15/90	90360122701	BPXA	y	BOC by CSTF, Contained on pad	Diesel	400	Vac truck, absorbents used. pads incinerated nsb, diesel placed in gc 1 ullage tank, gravel to arco pad 3.	Multiple	Operator left fill station unattended. Shut off valve failed. Volume downgraded from 1000 gal. 8-30.
12/21/95	95399935502	BPXA	y	West Prudhoe Bay, CFP/C WING CAMP EAST SIDE, BP SOURCE WATER	Other	400	Took Report, Case Closed 01-00-00		Line Failure
3/6/96	96399906601	ARCO	y	East Prudhoe Bay, FS 2 DS 11,	Produced Water	400	Field Visit/s, Case Closed 01-00-00		Leak
12/1/99	99399933501	ARCO ALASKA	ym	West North Slope, DS-4, WELL 25, ARCO FIELD,	Other	400	Took Report, Case Closed 12-07-00		Corrosion
5/11/01	01399913101	BPXA	ym	EAST NORTH SLOPE, CENTRAL GAS FACILITY,	Engine Lube Oil	400	Took Report, Case Closed 05-12-01		Seal Failure
1/20/03	03399902001	BPXA	y	Drill Site 14,	Produced Water	400	Field Visit/s, Case Closed 02-03-03		Line Failure
5/10/05	05399913001	BPXA	y	Seawater Injection Plant (SIP),	Engine Lube Oil	400	Phone Follow-up, Case Closed 10-17-05		Equipment Failure
6/3/05	05399915402	BPXA	y	Drill Site 4, DS-4, Well 40 Well Casing Leak	Diesel	400	Field Visit/s, Final closure pending 07-24-07		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/11/06	06399901101	BPXA	y	Lisburne Production Center (LPC),	Produced Water	400	Took Report, Case Closed 01-13-06		Seal Failure
4/8/06	06399909801	BPXA	y	Lisburne Production Center (LPC),	Produced Water	400	Phone Follow-up, Case Closed 04-12-06		Equipment Failure
10/13/06	06399928602	BPXA	y	Well Pad X, X Pad Produced Water/Crude Spill	Produced Water	400	Phone Follow-up, Case Closed 12-18-06		Gauge/Site Glass Failure
12/12/06	06399934601	BPXA	y	Flow Station 2 (FS-2),	Produced Water	400	Took Report, Case Closed 12-18-06		Containment Overflow
5/27/02	02399914701	BPXA	y	Gathering Center 1 (GC-1),	Produced Water	399	Phone Follow-up, Final Report 05-28-02		Crack
2/12/06	06399904301	BPXA	y	Gathering Center 1 (GC-1),	Produced Water	393	Took Report, Final Report 02-28-06		Containment Overflow
2/8/87	87360903902	ARCO Alaska, Inc.	y	DS 14,	Corr inhib/emulsion brkr	385	Soaked up with sorbents.	Incinerated	
12/20/89	89360535401	ARCO Alaska, Inc.	y	DS L1 Well 27, Reserve pit and tundra. 400x300 ft area.	Drilling muds	385	12-27 will not take loader onto tundra. will build ice berm and suck off contaminates at breakup. snow/mud melted, recycled.	Recycled	Reported late due to safety precautions. Release line pressurized gas, had to be vented. Wind carried material past reserve pit onto tundra. Light dust on tundra. Snow TPH readings from 1 ppm to 61 ppm. Area adjacent to site higher. After breakup, sorben
10/26/97	97399929902	ARCO	y	EAST NORTH SLOPE, ARCO CENTRAL GAS FACILITY.,	Therminal	378	Took Report, Case Closed 11-12-97		Seal Failure
10/26/97	97399929903	ARCO	y	EAST NORTH SLOPE, ARCO CGF,	Therminal	378	Took Report, Case Closed 01-00-00		Seal Failure
4/1/06	06399909101	BPXA	y	DS 16, EOA DS16 Well 21	Seawater	378	Phone Follow-up, Final Report 04-28-06		Human Error
12/4/91	91730133801	BPXA	y	ARCO DS 15 Well 23, Contained on pad	Diesel	360	Snow scraped up, liquids removed by vac truck. placed in melt tank, will reuse as freeze protect on site.	Recycled	Sight glass hose pulled loose, bottom sight glass valve in open position.
8/17/95	95399922904	ARCO	y	East Prudhoe Bay, SEAWATER TREATMENT PLANT, ARCO SEAWATER	Other	360	Took Report, Case Closed 01-00-00		Other
10/30/01	01399930301	BPXA	y	U Pad, U Pad Acid Spill/Truck Rollover	Other	353	Field Visit/s, Case Closed 07-25-02		Rollover/Capsize
2/5/95	95360105601	BPXA	y	M PAD, CONTAINED ON PAD	Crude	350	Snow gravel removed w/loader, shovels. fluids inside skid 54 squeegeed, reused. snow/gravel to t pad. sorbents to nsb ow dumpster pending incin.	Multiple	CLEANUP COMPLETED 7/5/95. VISUAL SHOWS NO REMAINING CONTAM.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/31/01	01399936502	BPXA	y	COTU,	Caustic Alkali Liquids (Caustic Soda)	350	Phone Follow-up, Interim Report 01-02-02		Overfill
7/16/02	02399919701	BPXA	y	CGF,	Hydraulic Oil	350	Phone Follow-up, Final Report 07-18-02		Gauge/Site Glass Failure
9/9/02	02399925201	BPXA	y	Gathering Center 3 (GC-3),	Ethylene Glycol (Antifreeze)	350	Phone Follow-up, Complaint/Report Received 09-10-02		Human Error
04/23/07	07399911301	BPXA	y	Seawater Treatment Plant (STP), SIP MEG Spill	Glycol, Other	350	Took Report, Case Closed 04-30-07		Human Error
04/26/07	07399911601	BPXA	y	Drill Site 2, Drill Site 2 Source Water Release	Source Water	349	Phone Follow-up, Complaint/Report Received 04-26-07		External Factors
8/22/04	04399923504	BPXA	y	Pad 3,	Propylene Glycol	345	Took Report, Case Closed 09-15-04		Unknown
12/16/89	89360135001	ARCO Alaska, Inc.	y	DS 5 Well 27 Nabors 28E rig, Contained on pad and in reserve pit	Crude	336	Super sucker and loader used. snow/gravel removed, taken to nsb sowp.	Approved Landfill	Injection line broke, fluid drained onto pad and reserve pit. Remainder of snow/gravel will be removed after rig is moved in day or so. rec'd "final" 12-26 dated 12-16, indicated rig would be moved 12-18.
12/29/90	90360936301	ARCO Alaska, Inc.	y	STP, Contained on snow/ice on pad	Antifreeze	336	Loader removed snow, put in drip tank, melted, injected cpf 1.	Subsurface Injection	Closed drain sump overfilled, vented onto roof, then onto pad.
2/14/91	91360204502	ARCO Alaska, Inc.	y	DS 1 near manifold bldg, Snow	Seawater	336	Vac truck used on free liquids, shovels on snow. snow injected pad 3.	Subsurface Injection	
10/9/06	06399928203	BPXA	y	Flow Station 1 (FS-1), FS-1 Produced water spill	Produced Water	336	Field Visit/s, Case Closed 10-16-06		Seal Failure
8/27/91	91730223901	BPXA	y	R Pad Well 18, Contained on pad	Seawater	330	Loader removed gravel. fluids reinjected into system.	Multiple	Vac truck being emptied, overflowed tank.
8/10/00	00399922302	PEAK OILFIELD SER/BPX	y	West Prudhoe Bay, RIG 9-ES WELL S101, Well Pad S,	Drilling Muds	327	Took Report, Case Closed 08-10-00		Cargo Not Secured
5/4/91	91360912401	ARCO Alaska, Inc.	y	CGF, Lined dike area	Antifreeze	326	Vac truck and supersucker used. taken to pad 3 for injection.	Subsurface Injection	Sight glass ruptured.
5/2/90	90360112202	Halliburton Services	y	X Pad Well 5, 3 in. Snow base	Other	323	Dug up snow, ice, 1" gravel. gravel washed and liquids run through ww treatment plant at pb.	Recycled	250 gal gel water, 70 gal Matraseal-O (granular diverter), 3 gal engine oil.
6/12/88	88360116403	Standard Alaska Production Com	y	GC-1 Injection Site, contained on pad	Diesel	320	Vac truck/gravel removed	Multiple/see Comments	Weld vibrated loose on tank.
5/11/03	03399913101	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	310	Phone Follow-up, Case Closed 05-22-03		Line Failure
3/28/86	86360108702	ARCO Alaska, Inc.	y	COTU,	Gasoline	307	Soaked up w/absorbents - contaminated snow scraped	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/6/75	75360127901	MUKLUK FREIGHT LINES, INC.	y	PRUDHOE BAY COTU LOADING DOCK,	Diesel	300	Snow, ice and gravel taken to dump		
10/6/75	75360128001	MUKLUK	y	PRUDHOE BAY COTU,	Diesel	300	Area cleaned and material disposed on site		
6/7/81	81360115801	ARCO Alaska, Inc.	y	Surfcote Tank Farm, Inside dike area at storage pad	Fuel oil	300	Contaminated sand taken to pingut pit.	Approved Landfill	Entered 10-26-89 from old records. Original report cause spill due to thermal expansion, qty. given as 100 gal. Phone call 6-16 changed qty. and gave cause as puncture in bladder.
10/9/83	83360928202	SOHIO	y	Skid 454, GC2, Prudhoe, None	Antifreeze	300	Vacuum truck	Unknown	Cause: Equipment failure. Type: Mono-ethelene Glycol. Entered from old records 7/10/90.
11/11/83	83360931501	SOHIO	y	R Pad, Skid 54, S. Side, R-Pad Stream, on top/ice.	Antifreeze	300	Culverts, sump, vac truck.	Not Given	Cause under investigation. Entered from old records 7/26/90.
12/29/83	83360936301	SOHIO	y	GC1 Skid 328B Prudhoe, Unknown	Antifreeze	300	Scraped by bucket loader.	Not Given	Entered from old record 7/30/90.
3/22/85	85360108101	Sohio	y	GC 3 Skid 25,	Crude	300	Vac truck, contaminated snow & ice removed		
1/15/86	86360101502	Bell Lavalin, Inc.	y	CPF 2, Kuparuk,	Diesel	300	Scraped up		
9/16/87	87360925801	ARCO Alaska, Inc.	m	Equipment pad by runway,	Corrosion inhibitor	300	Contaminated gravel scraped up and washed.	Liquid Injected/gravel Reused	
12/1/87	87360133501	ARCO Alaska, Inc.	y	Lisburne Production Pit,	Crude	300	Contaminated snow scraped up	Approved Landfill	
12/17/87	87360935101	ARCO Alaska, Inc.	y	DS 3,	Water/fire fighting foam	300	Contaminants scraped up	Interim Containment	
3/4/89	89360106302	BPXA	y	GC 3, Majority of area affected on ice	Crude	300	Loader used to remove contaminates. taken to gc-system for oil/water separation and oil recovery	Recycled	mixture 10% crude, 20% hydrocarbon condensate, 70% water. No indication of damange resulting from spill or cleanup has been found. Will monitor site after breakup. Line had frozen and ruptured in several locations.
5/28/89	89360114801	ARCO Alaska, Inc.	y	Surfcote Pad, contained on snow and gravel pad	Other	300	Loader used to pick up gravel, absorbents used to recover fluid. sorbents to nsb incin., gravel to temp storage at pad 3.	Multiple	Product fresh water with slight sheen, test showed 11 ppm hydrocarbon. Truck inadvertently discharged on pad.
7/15/89	89360119704	BPXA	y	F Pad, pond and pad	Diesel	300	Sorbent boom, pads, vac truck skimming sheen from pond, loader removing gravel. gravel/sante fe pad, sorbents/incin., water, diesel/gc ullage tank.	Multiple	Sight glass broke on fuel storage tank. Sheen affecting 15'x 60' ponded area. To be monitored after sheen recovery.
7/17/89	89360119801	BPXA	y	F Pad, Pad and adjacent pond	Diesel	300	Method of cleanup and disposal not given.	Not Given	270 gallons on pad, 30 gallons on pond.
11/5/89	89360930901	ARCO Alaska, Inc.	y	DS 16, Contained on pad.	Corrosion inhibitor	300	Vac truck used. recycled at fs 1.	Recycled	While filling C 129 tank, overfilled emulsion tank.
7/19/90	90360920001	BPXA	y	GC 1 Skid 302, Contained on pad	Antifreeze	300	Fluid vacuumed up, injected at pad 3. gravel to be removed when equipment is relocated.	Subsurface Injection	Plugged line caused overflow. No firm date on equipment relocation. Volume update from 200 gal. by FAX 7-19-90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/12/91	91360204301	BPXA	y	GC 1 T-402, Contained on pad near tank	Produced water	300	Snow/ice scraped up with loader, takent to t pad pit.	Interim Containment	Spilled on pad at tank hook-up.
7/5/91	91360918601	BPXA	y	West Op field P Pad chemical warehouse, Gravel	Other	300	Vac truck, loader used. washed gravel will be reused or placed in lined pit. rinse water recycled.	Multiple	Correxit 7755 spilled when bottom fitting on site glass pulled loose. 340 gal left in tank, 200 gal in truck. Interim 7-8 reports gravel high in benzene. Interim 7-9 downgraded volume from 725.
7/26/95	95399920701	ARCO ALASKA INC.	ym	West Prudhoe Bay - WEST DOCK ROAD,	Diesel	300	Took Report, Case Closed 01-00-00		Unknown
4/7/96	96399909802	BPXA	y	West Prudhoe Bay, S PAD, S PAD TUNDRA	Diesel	300	Field Visit/s, Final closure pending 08-31-97		External Factors
6/5/97	97399915601	BPXA	y	West North Slope, BP,	Crude	300	Phone Follow-up, Case Closed Transferred To CSITES 10-14-99		Unknown
1/28/99	99399902902	BPXA	ym	West Prudhoe Bay, GC-3, PWH SECTION,	Produced Water	300	Took Report, Case Closed 02-05-99		Valve Failure
4/18/99	99399910802	BPXA	y	BP, GC3 PAD,	Produced Water	300	Phone Follow-up, Case Closed 08-06-99		Line Failure
11/28/01	01399933201	BPXA	y	Lisburne Production Center (LPC),	Engine Lube Oil	300	Took Report, Final Report 12-06-01		Line Failure
11/4/02	02399930802	BPXA	y	Drill Site 6,	Hydraulic Oil	300	Phone Follow-up, Case Closed 03-06-03		Corrosion
4/14/05	05399910401	BPXA	y	Drill Site 9 (DS-9),	Seawater	300	Took Report, Case Closed 04-29-05		Human Error
10/13/06	06399928601	BPXA	y	Gathering Center 3 (GC-3),	Propylene Glycol	300	Phone Follow-up, Final Report 12-14-06		Corrosion
11/20/06	06399932401	BPXA	y	Gathering Center 1 (GC-1),	Diesel	300	Field Visit/s, Field Visit 11-21-06		Human Error
6/25/77	77360117601	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU CRUDE FEED TA, PAD	Crude	294	Gravel removed	Padspred	
11/21/85	85360932501	Sohio Alaska Petroleum Company	y	GC-2 Skid 481,	Glycol	294	Contaminated snow/gravel scraped up		
11/24/85	85360132801	Sohio Alaska Petroleum Company	y	J-6 Area (Rig 2),	Crude	294	Contaminated gravel scraped up		
4/3/89	89360109301	ARCO Alaska, Inc.	y	Seawater Injection Plant, Contained on snow pack on pad	Seawater	294	Vac truck picked up free liquid and loader scraped up contaminated snow. melted, injected at pad 3	Subsurface Injection	Faulty level indicator allowed driver to overfill tanker truck.
9/11/89	89360125401	Halliburton Services	y	DS 14, contained on pad	Cement	294	Forklift used to pick up material and put on stake-bed truck. will be taken to solid waste bin	Approved Landfill	Wet cement spilled when truck driver left valve open on cement truck.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/7/91	91360203801	Conoco	y	L Pad Nabors 27 E rig, 30 ft diam.	Other	294	Shovels, loader removed material. snow/ice/gravel placed in l pad reserve pit.	Interim Containment	Lake water contaminated with less than 1 lb. 4.6% chromium. Discharged onto floor of mud complex and overflowed to pad. Originally reported as 84 gal. containing trace of Desco powder.
3/28/91	91360208702	BPXA	y	Z Pad near well 18, Contained on pad	Seawater	294	Loader removed contaminants. taken to t pad lined pit for summer removal.	Interim Containment	valve on manifold sprayed mist of gelled seawater.
11/22/96	96399932702	ARCO	y	Drill Site 1 (DS-1),	Crude	294	Took Report, Case Closed 11-26-96		Unknown
3/25/03	03399908402	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Seawater	294	Field Visit/s, Case Closed 03-30-03		Corrosion
06/06/07	07399915701	BPXA	y	Central Gas Facility (CGF),	Hydraulic Oil	294	Field Visit/s, Case Closed 08-29-07		Equipment Failure
5/4/98	98399912402	ARCO	y	EAST NORTH SLOPE, ARCO PAD C.,	Corrosion Inhibitor	284	Phone Follow-up, Case Closed 07-02-98		Overfill
2/1/92	92730103203	ARCO Alaska Inc.	y	FS 3, Unlined containment dike	Diesel	280	On going. will be recycled fs 1.	Recycled	Leak in pump to lined containment dike.
8/17/05	05399922902	BPXA	y	Gathering Center 1 (GC-1),	Other	280	Took Report, Case Closed 08-19-05		Valve Failure
11/7/04	04399931201	BPXA	y	Seawater Injection Plant (SIP),	Seawater	275	Phone Follow-up, Case Closed 11-23-04		Corrosion
1/9/05	05399900901	BPXA	y	Flow Station 1 (FS-1), FS-1 Prod water spill	Produced Water	275	Phone Follow-up, Case Closed 01-19-05		Corrosion
2/13/05	05399904402	BPXA	y	Drill Site 11, Drill Site 11 Seawater Release	Seawater	275	Field Visit/s, Case Closed 03-21-05		Corrosion
10/7/02	02399928001	BPXA	y	DS 16,	Diesel	273	Phone Follow-up, Case Closed 10-22-02		Equipment Failure
3/19/76	76360107901	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Diesel	252	Snow removed, taken to landfill, incinerated.	Incinerated	
6/3/86	86360915401	Sohio Alaska Petroleum company	y	GC-II,	Glycol	252	Pooled liquid vacuumed up/contaminated gravel left	Recycled	Will remove contaminted gravel and intall a lined dike.
10/15/87	87360128801	ARCO Alaska, Inc.	y	DS 18, Gravel pad and cellar box	Drilling oil based mud	252	Vacuumed up liquid/soaked up with sorbents	Liquid Recycled/sorbents Incinerate	Backflow at well.
3/12/89	89360107102	ARCO Alaska, Inc.	y	DS 6, Well 10, contained on pad	Methanol	252	Material, snow cleaned up with shovels, loader. taken to pad 3	Approved Landfill	Coiled tubing unit ruptured realeasing fluid. Mixture of 70% water, 30% methanol.
10/15/89	89360128802	ARCO Alaska, Inc.	y	DS 16, Well 17, Contained on pad	Seawater	252	Super sucker used to remove gravel and snow. taken to pad 3.	Approved Landfill	Material discharged to pad through a valve which was left open while offloading to a tank.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/14/92	92730110502	ARCO Alaska Inc.	y	Ds 2-11, 50 x 800 snow on pad, reserve pit, snow on tundra	Crude	252	Snow scooped off pad & reserve pit. will remove misted snow from snow-covered tundra. taken to pad 3.	Approved Landfill	2" pipe from corrosion inhib. tank broke off, causing loss of pressure & ejection of fluids. Will sample pad/reserve pit, possibly tundra. As of 4/20, cleanup not completed.
2/11/00	00399904201	BAROID DRILLING FLUIDS	ym	PRUDHOE BAY, MUD PLANT IN TANK FARM AREA,	Other	252	Phone Follow-up, Case Closed 02-18-00		Overfill
7/15/01	01399919601	DOYON DRILLING	ym	West North Slope CD2-33 DOYON 19 WELL CELLAR AREA,	Other	252	Took Report, Case Closed 07-15-01		Leak
11/7/03	03399931102	BPXA	y	Well Pad A,	Seawater	252	Phone Follow-up, Final Report 12-12-03		Overfill
1/11/04	04399901101	BPXA	y	Gathering Center 1 (GC-1),	Propylene Glycol	252	Took Report, Final Report 01-20-04		Human Error
3/20/81	81360107903	ARCO Alaska, Inc.	y	FS 1 and CCP, Prudhoe, Gravel under module	Other	250	Absorbents used, gravel removed. gravel taken to nsb landfill and pingut pit. liquids injected at pad 3, pads burned at nsb.	Multiple	Entered 9-27-89 from old records. Product Ideal #300, lube oil from turbine compressor. Vent system routed to outside bldg. and gasses or mists of oil collect or condense on bldg. and pad.
1/9/82	82360900901	Sohio	y	GC1 Skid 30 & 31, Not given.	Other	250	Not given.	Not Given	Entered 3-12-90 from old records. Tretolite Emulsion.
5/29/83	83360114901	ARCO Alaska, Inc.	y	DS 2. Prudhoe Bay, Remained on pad.	Diesel	250	Vac truck & pads. reinjected at pad 3.	Subsurface Injection	Cause: Diesel ran out of openline. Entered from old records 6/25/90.
5/13/85	85360113402	Sohio	m	Put River Flow Line Crossing,	Crude	250	Pooled oil sucked up with vacuum truck		
7/11/88	88360119303	VECO	m	Unknown,	Oil	250		Unknown	
11/18/96	96399932301	BPXA	y	Well Pad W,	Produced Water	250	Phone Follow-up, Case Closed 01-00-00		Overfill
12/20/97	97399935401	B.P.	y	West North Slope, B.P. Well Pad R.,	Other	250	Took Report, Case Closed 01-00-00		Human Error
10/30/98	98399930301	BPXA	y	West Prudhoe Bay, BP, Z-PAD, BP Z-PAD FIRE	Crude	250	Field Visit/s, Case Closed 09-14-01		Explosion
9/26/01	01399926901	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Flow Station 3 (FS-3),	Other	250	Took Report, Final Report 10-18-01		Intentional Release
6/8/04	04399916001	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	250	Phone Follow-up, Case Closed 06-21-04		Human Error
11/14/05	05399931801	BPXA	y	Gathering Center 3 (GC-3),	Produced Water	250	Took Report, Case Closed 11-15-05		Valve Failure
10/24/06	06399929701	BPXA	y	Gathering Center 2 (GC-2), GC-2 Pig Launcher Crude/MEOH Release	Methyl Alcohol (Methanol)	250	Field Visit/s, Case Closed 08-14-07		Human Error
5/29/99	99399914901	BPXA	y	West Prudhoe Bay, Well Pad WOA, WELL N-7,	Corrosion Inhibitor	244	Took Report, Case Closed 06-01-99		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/3/90	90360118404	ARCO Alaska, Inc.	m	Maintenance Building, Contained on pad	Diesel	240	Absorbents used, taken to pad 3.	Approved Landfill	Sight glass on tank came off.
10/22/04	04399929601	BPXA	y	Drill Site 12,	Corrosion Inhibitor	240	Field Visit/s, Case Closed 12-20-04		Line Failure
1/20/91	91360102001	Conoco	y	L Pad, 5,184 sq ft snow on tundra/gravel pad/well cellar	Crude	231	Vac truck cleaned fluids from cellar box. shovels used. snow, gravel put through milne pt. facility.	Recycled	Loose flange. 4 BBLS contained within cellar box, 1 bbl on pad and misted snow on tundra. Tundra not reached. Some gravel on tundra.
6/26/98	98399917701	ARCO	y	EAST NORTH SLOPE, ARCO CGF UNIT.,	Drag Reducing Agent	228	Took Report, Case Closed 01-00-00		Seal Failure
3/14/05	05399907305	BPXA	y	Well Pad S,	Diesel	228	Took Report, Case Closed 04-13-05		Valve Failure
8/31/05	05399924301	BPXA	y	Well Pad S,	Diesel	225	Took Report, Case Closed 01-04-06		Leak
3/8/97	97399906702	BPXA	y	West Prudhoe Bay, E PAD,	Crude	220	Field Visit/s, Case Closed 07-23-97		Valve Failure
11/13/81	8136013173	Sohio	y	GC 3 Flare pad, Not given	Crude	210	Not given	Not Given	Entered 2-15-90 from old records. Follow up 12-2 and 12-8-81.
4/16/83	83360110601	Kodiak Oildfield Haulers	m	Cutting pit, S end of Pad, Unknown	Other	210	Contaminants removed.	Not Given	Type: Oil/Water Mix. Cause: Vacuum truck cleaning tanks. Reported by Exxon; very little oil. Entered from old records 6/25/90.
6/3/83	83360115304	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, CLEANOUT PIT AREA	Diesel	210	Vac truck removed fluids from pit and gravel puddles; absorbents used. liquids injected, pads incinerated.	Multiple	Spillage around cleanout pit became evidident as melting snow turned into oil residue on pad. Mixture diesel, crude.
6/3/83	83360115402	ARCO Alaska, Inc.	y	COTU/SSA/Prudhoe Bay, Unknown	Other	210	Vac truck & pads & injected liquids into oily waste in.	Subsurface Injection	Type: oily waste. Cause: Spillage around cleanout pit. Entered from old records 6/25/90.
6/25/83	83360117603	ARCO Alaska, Inc.	m	Ravik State 1, Prudhoe, Unknown	Diesel	210	Sorbents.	Not Given	Entered from old records 6/26/90.
7/10/83	83360119104	ARCO Alaska, Inc.	y	FS 2 Prudhoe, Unknown	Crude	210	Vacuum truck & sorbents.	Not Given	Cause: Overflowed tanker. Entered from old records 6/26/90.
7/11/83	83360119202	ARCO Alaska, Inc.	m	Ravik State 1/Ex. Well, Unknown	Diesel	210	Sorbents.	Not Given	Diesel coming out of ice melt. Entered from old records 6/26/90.
8/19/83	83360123101	ARCO Alaska, Inc.	y	DS 12, Prudhoe, None, all on gravel.	Crude	210	Vacuum, removed gravel.	Unknown	Entered from old records 7/5/90. Crude mixed w/ water. Cause: Pressure release valve.
12/22/84	84360135601	ARCO Alaska, Inc.	y	Crude Oil Topping Unit,	Gasoline	210	Vacuum truck picked up free liquids		
5/13/85	85360113301	Sohio	m	Put Riv flow cross (PWX-46),	Crude	210	Vac truck took up pooled oil, scraped up ice, snow		
4/29/86	86360111901	ARCO Alaska, Inc.	y	Lisburne L3,	Crude 5%/water 95%	210	Scraped up contaminated snow	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/10/86	86360116101	Sohio Alaska Petroleum Company	y	R Pad,	Crude	210	Being vacumed up	Subsurface Injection	*to 60' of river and bank east of access road. Interim report 6/11/86
6/18/86	86360116901	Sohio Alaska Petroleum Company	y	GC-III, Skid 8A,	Crude	210	Vacuumed up pools/contaminants shoveled up	Multiple/see Comments	Liquid to GC Ullage tank/sorbents incinerated/gravel to J Pad Reserve
6/18/86	86360116902	Sohio Alaska Petroleum Company	y	GC III, Skid 8A,	Crude	210	Vacuumed up pools/sorbent used/snow removed	Incineration/approved Landfill	
7/24/86	86360120502	Standard Alaska Production Com	y	F-Pad,	Diesel/lube oil	210	Vacuumed up/soaked up w/sorbents	Multiple/see Comments	liquid to GC-III Ullage/Sorbents to NSB incinerator
9/25/86	86360126801	ARCO Alaska, Inc.	y	FS 1,	Crude	210	Soaked up with sorbents-steam cleaned building	Incinerated	
3/28/87	87360908701	Standard Alaska Production Com	y	WSW,	Sea water	210	120 barrels of freshwater sprayed on top of ice	None	
11/14/87	87360131801	ARCO Alaska, Inc.	y	DS 7,	Crude	210	Oily snow scooped up	Interim Containment	
3/17/88	88360107701	ARCO Alaska, Inc.	y	Point McIntyre #3, Area around slug pit	Diesel	210	Vacuumed up liquid/soaked up with sorbents	Liquid Injected/sorbents To Nsb	
4/14/88	88360110502	ARCO Alaska, Inc.	y/m	Common line 16C,	Crude/produced water	210	Contaminated gravel scraped up	Approved Landfill	Corrosion
6/11/88	88360116305	ARCO Alaska, Inc.	y/m	Hot Water Plant, Hot Water Plant	Crude	210	Soaked up w/sorbents;contaminants scraped up	Other	Option: taken to contaminated gravel pit
6/27/88	88360117901	ARCO Alaska, Inc.	y	Lisburne DS LGI,	Drilling mud/water	210	Not given	Not Given	
7/7/88	88360118903	Standard Alaska Production Com	y	B-Pad, contained on pad	Water w/ organic gel	210	Removed with equipment / tanks were relocated		
7/9/88	88360119101	VECO	y	DS 7 reserve pit, reserve pit where clean-up was already in process	Crude	210	Vac up with skimmer and inject down open annulus	Injected	discharged load into reserve pit instead of tank/misunderstood orders
10/20/88	88360129403	ARCO Alaska, Inc.	y	DS 3, to pit s. of Sag Bridge, contained on gravel pad and road	Crude	210	Fluids with absorbents, snow with loader	Incineration/approved Landfill	
10/24/88	88360129802	ARCO Alaska, Inc.	y	CGF, contained on pad	Glycol	210	Vac truck and loader to remove snow and gravel	Approved Landfill	60% glycol, 40% water
11/11/88	88360131601	ARCO Alaska, Inc.	y	FS 1, contained on pad	Crude	210	Loader to remove material and contaminated snow	Recycled	leak from Common Line 1C suspected due to erosion/corrosion effects

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/8/88	88360134302	ARCO Alaska, Inc.	y	DS 18, Well 20, contained on pad	Drilling muds	210	Absorbents on fluids, loader for snow	Incineration/approved Landfill	insulated cutting box overfilled during materials transfer
12/11/88	88360134603	ARCO Alaska, Inc.	y	DS L2, Well 32, contained on pad	Seawater/trace of oil	210	Absorbents soaked up material on rig floor	Incinerated	Further clean up when rig is moved. Snow/material will go to Pad 3
12/19/88	88360135403	SAPC Endicott	y	Well S-17, contained on pad	Crude	210	Snow scraped up with loader	Approved Landfill	hose on vac truck split
12/30/88	88360136502	ARCO Alaska, Inc.	y	FS 3, injection well 3-1, contained on pad	Seawater/ produced water	210	Fluid vacuumed up, snow picked up by loader	Subsurface Injection	
1/19/89	89360101904	SAPC Endicott	y	GC 3 T 7500 Skim Tanks, contained on pad	Crude	210	Perimeter areas cleaned up to avoid tracking	Recycled	level indicator freezeup. Mix 80% crude, 20% water
3/20/89	89360107901	ARCO Alaska, Inc.	y	DS 14, outside Manifold building, contained on snow on pad	Seawater	210	Super suckers used to remove liquid, loaders used for ice and frozen material. taken to pad 3 after melting	Approved Landfill	Seawater contained 3 gallons of crude. During pigging operation 500 BBL tank overfilled.
4/7/89	89360109703	BPXA	y	F Pad, Contained on pad.	Antifreeze	210	Material shoveled up and hauled to a3/w2 melter. material melted, mixed with fluids being used for hydrotesting.	Recycled	While hydrotesting materials were being transferred, tanker was setting at an angle and fluid escaped out rear vent. Duplicate final report rec'd 5-22-89
7/14/89	89360119501	ARCO Alaska, Inc.	y	FS 2, gravel	Seawater	210	Vac truck used, gravel picked up. liquids recycled at fs 1, gravel to nsb sowp.	Multiple	99% seawater, 1% crude spilled while pressuring seawater system. Seawater migrated into produced water system through leaky gasket.
11/16/89	89360132001	ARCO Alaska, Inc.	y	DS 2, Well 25, Contained on pad 20 x 20	Cement	210	Super sucker removed material and snow. liquid to pad 3, cement to nsb sowp.	Approved Landfill	Diluted contaminated cement (seawater, cement, and water) spilled after squeeze job when drain valve left open.
11/20/89	89360932402	ARCO Alaska, Inc.	y	DS 3 Well 17, Contained on pad	Methanol	210	Super sucker used on liquid and gravel. liquid to pad 3, gravel to nsb sowp.	Multiple	Ice in bottom of tank caused inaccurate reading of tank level.
12/25/89	89360935901	ARCO Alaska, Inc.	y	Hot Water Plant on runway, Contained on pad	Other	210	Super sucker, loader used. liquid taken to pad 3 for injection, gravel put in tank for reuse.	Multiple	Product biozan gel. Biozan is welan gum poly-saccharide used for fresh water, which contains no hazardous ingredients listed (RCRA, CERCLA). The LD50 for rats is less than or equal to 5 gm/kg. Inoperative sight glass led operator to open valve while truc
1/13/90	90360201301	ARCO Alaska, Inc.	y	FS 3, Contained on pad	Seawater	210	Frozen seawater, gravel removed. taken to nsb sowp.	Approved Landfill	Hatch on seawater receiving line failed.
2/12/90	90360204301	ARCO Alaska, Inc.	y	DS 13 Well 7, Containment area around tank/reserve pit	Seawater	210	Vac truck removed fluid within dike, loader removed frozen material and snow. taken to pad 3 for injection.	Subsurface Injection	126 gallons went into containment pit, 84 gallons to edge of reserve pit.
2/15/90	90360204601	ARCO Alaska, Inc.	y	DS 15 Well 6, Contained on pad and in reserve pit	Produced water	210	Loader removed material, took to nsb sowp.	Approved Landfill	Hardline union vibrated loose.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/26/90	90360105701	ARCO Alaska, Inc.	y	DS L3 Well 28, 1 gal. carried by wind onto snow covered tundra.	Crude	210	Shovels removed contaminated snow on tundra, shovels and loader removed from pad. recycled at lisburne production center.	Recycled	During hot oil treatement, thread on hardline broke. 209 gal. remained on pad, wind carried 1 gal onto snow covered tundra.
3/9/90	90360206801	BPXA	y	GC3 Skid 301, Contained in gravel on pad under building	Seawater	210	Warm sea water soaked into gravel pad preventing conventional recovery. area flushed with 630 gal fresh water.	Other	Valve failure in skid building allowed seawater to drain onto pad below building.
3/17/90	90360207601	ARCO Alaska, Inc.	y	DS 17 Well 3 Nabors 2 EF Drilling Rig, Contained on pad	Seawater	210	Hand shovels, loader used to remove material, taken to pad 3.	Approved Landfill	Seawater overflowed cuttings box.
3/22/90	90360508101	ARCO Alaska, Inc.	y	Pad 3, Contained on pad	Cement	210	Bulldozed into pit where originally intended to go.	Other	While dumping into SOWP, some spilled under tires of super sucker.
3/31/90	90360209001	ARCO Alaska, Inc.	y	DS 14, Well 15, Snow covered pad	Seawater	210	Loader removed material and snow, melted, taken to pad 3.	Subsurface Injection	
4/9/90	90360209901	ARCO Alaska, Inc.	y	DS 13 Manifold Bldg, Gravel Pad	Seawater	210	Frozen water scraped up, melted, taken to pad 3 for injection.gravel to pad 3 sowp.	Subsurface Injection	Overfilled divert tank during pigging operation. Originally reported as 840 gal., downgraded same day.
5/28/90	90360214801	BPXA	y	X Pad Well 18, Contained on pad	Gelled water	210	Vac up as much standing water as possible, will remove gravel when tanks are moved.	Not Given	Product GUAR (freshwater based gel). Sloping location tilted full tanks. Liquid came over down spouts.
6/23/90	90360217403	Halliburton Services	y	DS 14, Well 7, No environmental damage	Gelled water	210	Super sucker used, arco disposed of at pad 3 pit.	Approved Landfill	Hose blew off line spilling gelled water.
8/4/90	90360121601	Conoco	y	E4 Well, Pad-possibly can get to tundra.	Diesel	210	On going within wellhouse, as it leaks into cellar. vac truck used. reinjected into system.	Recycled	Damage in downhole casing in brand new well.
12/20/90	90360235401	BPXA	y	Pad A well 34, Contained on pad	Other	210	Vac truck removed as much fluid as possible. remainder will be removed when equipment is removed. taken to gc 1 dirty water tank.	Interim Containment	Affluent water with class G cement trace.
2/6/91	91360203701	BPXA	y	G Pad Well 30, Contained in snow on pad	Seawater	210	Snow removed with loader, taken to t pad pit. will recycle in spring.	Interim Containment	Warm seawater pumped into tanks thawed valve allowing leak of 200 gal seawater, 10 gal crude.
2/16/91	91360204702	ARCO Alaska, Inc.	y	DS 4 Manifold Bldg., Snow on gravel pad	Produced water	210	Loader removed material, took to melter, will be injected pad 3.	Subsurface Injection	Frozen line to Tiger tank.
3/2/91	91360206101	ARCO Alaska, Inc.	y	DS 17 Well 14, 20 x 40 snow/ice on pad	Seawater	210	Loader removed snow/ice, melted, reused for cut water on site.	Recycled	
3/18/91	91360207701	ARCO Alaska, Inc.	y	DS 12 Well 22, Contained on pad	Gelled water	210	Loader, absorbents used. snow melted, injected pad 3. absorbents to nsb incinerator.	Multiple	Hatch left open during loading process spilling 95% gel, 5% produced water.
8/13/91	91730222501	VECO	y	SIP, 60 x 20 sq ft gravel	Seawater	210	Guzzler removed water/gravel. taken to pad 3.	Approved Landfill	
10/24/91	91730529701	BPXA	y	DS 4, Contained on pad	Drilling muds	210	Guzzlers removed mud, hauled to ds 16.	Other	
10/31/91	91730230402	Peak Oilfield Services	y	N Pad, 15 cy gravel	Produced water	210	Loader removed snow/gravel. taken to t pad.	Approved Landfill	Wrong valve on vac truck opened.
5/5/96	96399912601	BPXA	y	Well Pad B,	Drilling Muds	210	Took Report, Case Closed 05-07-96		Human Error
6/8/96	96399916001	BPXA	y	E PAD,	Diesel	210	Took Report, Case Closed 01-00-00		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/20/99	99399907901	ARCO	y	ARCO, EOA, FLOW STATION 2 PAD,	Produced Water	210	Took Report, Case Closed 03-30-99		Leak
5/28/99	99399914801	ARCO ALASKA	ym	West North Slope, KUPARUK, 2D PIG RECEIVER BLDG,	Seawater	210	Took Report, Case Closed 05-28-99		Seal Failure
6/14/01	01399916503	BPXA	y	EAST NORTH SLOPE, DRILL SITE 11,	Seawater	210	Took Report, Case Closed 06-20-01		Valve Failure
5/9/04	04399913001	BPXA	y	Well Pad M, Well Pad M Crude Spill	Crude	210	Phone Follow-up, Case Closed 06-01-04		Other
11/2/05	05399930601	BPXA	y	Well Pad V,	Drilling Muds	210	Took Report, Case Closed 11-09-05		Line Failure
5/1/95	95360112101	ARCO ALASKA, INC.	y	FS 1-3, CGF, PT MC & LISBURNE, GRAVEL PADS	Diesel	205	Hand shovels, loaders, bobcats removed contaminated gravel. taken to pad 3 west pit for remediation.	Other	SPRING CLEANUP OF MISC. VEHICLE LEAKS OF DIESEL, CRUDE, LUBE, HYDRAULIC, ETC. REMEDIATED AT PAD 3.
6/10/72	72360116101	ARCO Alaska, Inc.	y	Prudhoe Bay, Not given	Crude	200	Absorbent used. disposal not given.	Not Given	Entered from old records 4-12-91.
4/8/76	76360112901	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU STORAGE AREA, PAD	Diesel	200	Vac truck cleaned lined area	Injection At Pad 3	
5/10/76	76360113601	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, pad	Diesel	200	Vac truck pumped liquid from lined dike		
3/15/81	81360107401	ARCO Alaska, Inc.	y	COTU OFFLOAD AREA, Not given.	Reformate	200	Picked up within 30 min. of spill. most of discolored snow removed. possibly incinerated.	Incinerated	3rd party responsible Alaska West Express. Onsite visit. No final.
3/15/81	81360107402	ARCO Alaska, Inc.	m	Off Loading area, Not given.	Reformate	200	Not given.	Not Given	Entered 9-27-89 from old records.
3/7/82	82360106601	ARCO Alaska, Inc.	y	Prudhoe Bay, Surfcoat fuel Storage Area	Diesel	200	Used loaders/shovels to clean snow/diesel mix. taken to nsb landfill.	Approved Landfill	Entered from old records 4-28-90.
5/25/83	83360114501	ARCO Alaska, Inc.	y	Arco COTU loading dock, Saturated gravel.	Diesel	200	Sorbents; gravel removed.	Not Given	Entered from old records 6/25/90.
11/6/83	83360931002	SOHIO	y	Skid 408, GC2, Prudhoe, Unknown	Antifreeze	200	Contaminated snow/fluid scooped.	Not Given	Caused by overpressured tank. Entered from old records 7/25/90.
11/16/83	83360932001	SOHIO	y	Y Pad, Skid 54, Prudhoe, 400 sq. ft. area.	Antifreeze	200	Fluid washed out/vacuumed.	Not Given	Type: MEG. Entered from old records 7/27/90.
11/18/83	83360932201	SOHIO	y	Y Pad, Skid 54, Glycol on tundra	Antifreeze	200	Vacuum truck.	Not Given	Entered from old records 7/27/90.
11/22/83	83360932601	SOHIO	y	GC 2 Skid 301, Unknown	Antifreeze	200	Scraped/used "floor-dry"	Not Given	Cause: Faulty packing on pump. Entered from old records 7/27/90.
12/22/84	84360135701	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, PAD	Gasoline	200	Picked up by vaccum truck	Injection	
7/17/85	85360119801	Sohio	y	M pad next to rig,	Diesel	200	Gravel dug out and replaced	Approved Landfill	Forklift struck valve stem.
8/24/85	85360123601	ARCO Alaska, Inc.	y	COTU, Prudhoe Bay,	Jet-a	200	Vacuumed up with vacuumed truck		Product Jet-A
9/7/85	85360925101	Sohio	y	Sohio S pad,	Acid	200	Soda ash, pumped pooled acid	Not Given	3% HFL, 12% HCL

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/3/85	85360933701	SOHIO Alaska Petroleum Company	y	GC-2, Skid 481,	Glycol	200	Vacuumed up/scraped up snow/gravel	Subsurface Injection	Contaminants to J-Pad reserve pit
12/14/85	85360934801	ARCO Alaska, Inc.	y	L-1-14, Lisburne,	Methanol	200	Thawed contaminated snow w/steam/injected to pad#3		
12/15/85	85360934901	ARCO Alaska, Inc.	y	DS L1, Well 14,	Methanol	200	Scraped gravel and snow into truck/melted/vacuumed	Subsurface Injection	
12/27/85	85360136101	Sohio Alaska Petroleum Company	y	Skid 54, F-pad,	Crude	200	Contaminated snow scraped up		
2/19/87	87360905001	ARCO Alaska, Inc.	y	Central Gas Facility,	Glycol	200	None - most of product was vaporized by flare	Incinerated	
4/29/87	87360111901	Parker Drilling Company	m	Deadhorse,	Diesel	200	Scraped up contaminants	Interim Containment	
1/5/88	88360100501	Dowell Schlumberger	m	Storage Pad, Area around storage tanks	Wastewater	200	Washed down with soda ash water	None	
6/1/88	88360115301	ARCO Alaska, Inc.	y	Lisburne DS 4, Lisburne DS 4	Diesel	200	Snow and gravel scraped up		Alternator rubbed against compressor filter/caused hole which leaked
9/2/88	88360124601	Texaco	m	Rear west corner of DS pad, on gravel pad	Wash water in batch mixer	200	Soda ash spread, remove layer of gravel	Approved Landfill	
10/19/88	88360129303	ARCO Alaska, Inc.	y	FS 1, did not reach tundra-is not moving	Gasoline	200	None given		No cause given.
12/3/88	88360133801	ARCO Alaska, Inc.	y	DS Maintenance Yard, contained on pad	Methanol	200	Snow picked up with loader	Recycled	
2/9/89	89360104003	ARCO Alaska, Inc.	y	DS 9, NW corner, contained on pad	Antifreeze	200	Snow scraped up by loader	Approved Landfill	hose contained air, hose twisted, camlok fitting disengaged
4/2/89	89360109202	ARCO Alaska, Inc.	y	DS L 4, Contained on pad	Methanol	200	Vacuum truck used, plus absorbents. fluids taken to I5-32 for injection. sorbents to nsb incinerator, snow to nsb landfill	Multiple	Frac Fluid mixture water 60%, methanol 35%, diesel 5%. Valve on tanker truck partially blocked by ice plug. Spill occurred when plug thawed.
6/8/89	89360115902	BPXA	y	BOC Fuel pumps. Fuel 5 area, Base camp pad, Prudhoe, Holding pond received about 100 gallons.	Fuel oil #2	200	2 vac trucks with monterey skimmers, absorbent booms in pond, sorbents being used/soil removed. sorbents/nsb incin, gravel/sante fe pad, fluids recycl	Multiple	Unknown driver drove off with nozzle still in tank. Possibly ruptured hose, leaked from pump unit at fillup area. Fuel ran from gravel into pond. Did not soak into ground, area surrounded by gravel. Materials moved to Sante Fe pad treatment area. No evi
10/16/89	89360128901	BPXA	y	CPS, Contained on pad	Antifreeze	200	Vac truck used, glycol injected into ullage system. gravel will be picked up	Subsurface Injection	Leaking fill valve caused spill. 10-17-89 Spill contained, but glycol still leaking from sub floor into lined area.
12/22/90	90360135601	ARCO Alaska, Inc.	y	DS 5 Well 25, Contained on pad	Diesel	200	Loader removed snow. snow melted, reused.	Recycled	Weld on crossover broke. Originally reported as 420 gal.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/2/91	91360903303	BPXA	y	GC 3 Skid 21, Contained on pad	Antifreeze	200	Fluids vac'd, snow ice removed by loader. contaminants taken to t pad lined pit for summer removal. fluids returned to gc system.	Interim Containment	Overpressure of glycol heating system.
2/6/91	91360203702	BPXA	y	G Pad Well 30, Snow on pad	Seawater	200	Snow will be removed by loader when tanks removed from site. snow will be taken to t pad pite.	Approved Landfill	Seawater/residual crude spilled when warm seawater pumped into tanks thawed a valve.
4/8/91	91360109801	BPXA	y	X Pad Well 7, Contained on snow/ice on pad	Diesel	200	Absorbents used, loader removed snow/ice. sorbents burnable dumpster, snow to a3w2 for recovery.	Multiple	
4/8/91	91360109804	BPXA	y	X Pad Well 7, Snow/ice on pad	Diesel	200	Absorbents used, placed in burnable dumpster. snow tanken to t pad waste pit for summer recovery.	Interim Containment	
5/19/91	91360113901	BPXA	y	M Pad, Contained on pad	Diesel	200	Absorbents used, taken to nsb incinerator. gravel to t pad lined pit.	Incinerated	Interim 5/27/91. Gravel has been identified and will be removed. Some gravel contam. may be under rig mat.
5/25/91	91360114505	BPXA	y	M Pad Well 28, Gravel on pad	Diesel	200	Gravel removed by loader, shovels, taken to arco pad 3.	Approved Landfill	
10/28/91	91730930101	BPXA	y	BOC, Contained in snow/ice on pad	Methanol	200	Loader removed snow. material melted, reused.	Recycled	Overpressurized line vented 120 gal. methanol, 80 gal. water.
12/16/91	91730235001	BPXA	y	GC 1 Skid 402, Contained on pad	Produced water	200	Free liquid vacuumed up, snow/ice/gravel scraped up with loader, taken to arco pad 3.	Approved Landfill	
1/24/92	92730202402	VECO	y	C Pit staging area, 800 sq ft snow on gravel	Seawater	200	Loader, shovels removed material, took to 2z recycle.	Recycled	
5/18/97	97399913801	BPXA	y	West North Slope, GC-2.,	Ethylene Glycol (Antifreeze)	200	Field Visit/s, Case Closed 08-20-97		Line Failure
4/7/98	98399909701	B.P.	ym	West North Slope,	Hydraulic Oil	200	Took Report, Case Closed 01-00-00		Seal Failure
4/13/98	98399910401	BPXA	y	Well Pad H, Well Pad H Reserve Pit, WOA	Corrosion Inhibitor	200	Field Visit/s, Case Closed Transferred To CSITES 12-17-98		Line Failure
6/13/98	98399916401	BPXA	y	EAST NORTH SLOPE, B.P. , Well Pad Y.,	Other	200	Field Visit/s, Complaint/Report Received 06-13-98		Overfill
7/3/99	99399918401	ARCO ALASKA	ym	EAST NORTH SLOPE, CCF, INSIDE MOD 4901,	Hydraulic Oil	200	Took Report, Case Closed 07-03-99		Equipment Failure
7/30/99	99399921101	BPXA	y	BP, WOA, PAD U,	Produced Water	200	Took Report, Case Closed 08-10-99		Human Error
2/14/00	00399904505	BPXA	ym	EAST NORTH SLOPE, BADAMI, MOD 200 FLOOR,	Crude	200	Took Report, Case Closed 02-15-00		Overfill
5/29/00	00399915001	BPXA	ym	West Prudhoe Bay, GC-2 PAD, SKID 489,	Ethylene Glycol (Antifreeze)	200	Took Report, Case Closed 12-08-00		External Factors
3/3/02	02399906201	NABORS DRILLING/PHILIPS ALASKA	ym	Hunter #1 exploration well,	Drilling Muds	200	Took Report, Final Report 03-04-02		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/9/03	03399906801	BPXA	y	Gathering Center 2 (GC-2),	Ethylene Glycol (Antifreeze)	200	Phone Follow-up, Case Closed 03-12-03		Overfill
3/22/03	03399908101	BPXA	ym	ice road,	Produced Water	200	Field Visit/s, Case Closed 04-10-03		Overfill
7/20/03	03399920101	BPXA	y	Lisburne Production Center (LPC),	Engine Lube Oil	200	Took Report, Case Closed 07-23-03		Equipment Failure
10/10/04	04399928403	BPXA	y	Gathering Center 1 (GC-1),	Ethylene Glycol (Antifreeze)	200	Phone Follow-up, Case Closed 07-06-05		Other
4/4/05	05399909402	BPXA	y	Flow Station 2 (FS-2),	Produced Water	200	Took Report, Case Closed 04-07-05		Seal Failure
10/14/05	05399928701	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	200	Took Report, Case Closed 10-17-05		Containment Overflow
2/26/06	06399905701	BPXA	y	East Prudhoe Bay, DRILLSITE 9,	Propylene Glycol	200	Phone Follow-up, Case Closed 03-04-06		Unknown
4/4/06	06399909401	BPXA	y	Gathering Center 2 (GC-2),	Crude	200	Phone Follow-up, Case Closed 04-07-06		Seal Failure
6/9/06	06399916001	BPXA	y	Main Construction Camp (MCC),	Propylene Glycol	200	Field Visit/s, Case Closed 10-06-06		Line Failure
06/16/07	07399916702	BPXA	y	Central Gas Facility (CGF), BP East Prudhoe Bay	Hydraulic Oil	200	Took Report, Case Closed 06-20-07		Line Failure
6/15/99	99399916601	CAMCO	ym	CAMCO EQUIPMENT YARD ON SPINE ROAD, CAMCO CTU Tank Leak	Diesel	190	Field Visit/s, Case Closed Transferred To CSITES 01-03-01		Line Failure
3/29/04	04399908902	BPXA	y	Well Pad N,	Corrosion Inhibitor	190	Phone Follow-up, Case Closed 01-13-05		Equipment Failure
4/25/03	03399911502	BPXA	y	Main Construction Camp (MCC),	Diesel	187	Took Report, Case Closed 04-28-03		Equipment Failure
9/28/06	06399927101	BPXA	y	Gathering Center 2 (GC-2),	Crude	185	Phone Follow-up, Final Report 10-16-06		External Factors
8/24/89	89360123601	ARCO Alaska, Inc.	y	DS 1, Well 2, Contained on pad	Crude	180	Super sucker used on free liquid and gravel. gravel taken to nsb sowp.	Approved Landfill	Swedge on hard-line from pump to wellhead broke. Less than 1 gallon of crude misted onto tundra. Can't see oil on tundra, but they know it went in that direction. Final report does not mention treatment of tundra, if any.
10/28/85	85360130101	SOHIO Alaska Petroleum Company	y	GC-1 Flare Pad,	Glycol	175	Contaminated materials picked up with shovels/load		
8/14/01	01399922601	DOYON DRILLING/ BPX	y	S PAD EXTENSION,	Drilling Muds	170	Took Report, Case Closed 08-16-01		Line Failure
6/9/83	83360116005	ARCO Alaska, Inc.	y	W. Bay State 1, Prudhoe, To be determined	Crude	168	Vacuum, sorbents, etc.	Not Given	Cause: overwinter spill, undetected. Entered from old records 6/26/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/13/83	83360119402	SOHIO	m	Prudhoe?, Contained in gravel pad.	Diesel	168	Vacuum truck.	Not Given	Cause: Fuel tanker leak. Entered from old records 6/26/90.
8/5/83	83360121703	ARCO Alaska, Inc.	y	DS 2_C, Prudhoe, Unknown	Crude	168	Sorbents, gravel removed. taken to oxbow landfill.	Approved Landfill	Entered from old records 7/5/90. Cause: Vacuum truck overflowed.
8/13/85	85360122501	Sohio	m	Outside skid 481,	Unknown	168	Contaminated gravel removed.	Not Given	
12/3/85	85360133701	SOHIO Alaska Petroleum Company	y	A pad Well #2,	Diesel	168	Soaked up w/absorbents-cont. snow/ice scraped up		
3/10/86	86360106902	Sohio Alaska Petroleum Company	y	R-Pad new extension,	Engine lube oil*	168	Scraped up contaminants.	Incineration/approved Landfill	*also anti-freeze and burnt diesel/oil
4/22/86	86360111202	ARCO Alaska, Inc.	y	L-2 on pad,	Crude/brine*	168	Soaked up w/sorbents - scraped up contaminants	Interim Containment	*4 barrels, Crude - 8 barrels, brine
5/26/86	86360114701	ARCO Alaska, Inc.	y	COTU Fuel Loading Dock,	Diesel	168	Contaminated snow/gravel scraped up	Interim Containment	
6/12/86	86360116301	ARCO Alaska, Inc.	y	DS L2,	Crude	168	Vacuumed up	Subsurface Injection	Contacted message phone in Prudhoe
7/6/86	86360118701	Sohio Alaska Petroleum Company	y	Gathering Center 1,Ullage Area,	Crude	168	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	
7/15/86	86360119601	ARCO Alaska, Inc.	y	DS 14, Well 8,	Crude,5%/seawater, 95%	168	Soaked w/sorbents-scraped up gravel	Incinerated	
8/10/86	86360122201	Standard Alaska Production Com	y	GC-1, Flare Pad,	Crude	168	Ongoing	Unknown	Interim report received 10/19/86
2/23/87	87360105401	ARCO Alaska, Inc.	y	LGI Pad,	Crude	168	Contaminants scraped up	Recycled	
7/15/87	87360119601	ARCO Alaska, Inc.	y	Surf Cote Diesel Station Fac., Approximately 20' X 10' area on pad	Diesel	168	Sucked up liquid with vacuum truck	Recycled	
9/28/87	87360127101	ARCO Alaska, Inc.	y	DS L2, Well 16,	Crude	168	Vacuumed up liquid/soaked up with sorbents	Fluid Injected/sorbents Incinerated	
6/23/88	88360117505	Standard Alaska Production Com	y	E pad, ponded water and tundra 20' x 60'	Crude	168	Sorbents and vacuum truck	Multiple/see Comments	Seepage through liner.
12/5/88	88360134003	ARCO Alaska, Inc.	y	DS 11, Well 13, 15% material misted onto, discolored tundra snow	Diesel	168	Hand shovels to pick up material and snow	Approved Landfill	during pressure test, annulus valve left open, misted over snowcover
12/22/88	88360135703	ARCO Alaska, Inc.	y	J Pad, contained on pad	Crude	168	Loader/super vac truck removed material/snow	Approved Landfill	adding chemicals to tanker, high temp and pressure caused mist

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/21/89	89360117206	ARCO Alaska, Inc.	y	Pad 3 Old BP pit, Sheens on tundra and ponds.	Crude	168	Absorbents, booms, supersuckers deployed to soak up material. sorbents to nsb incinerator, material to pad 3 sowp.	Multiple	Material emanated from soil and surface atop snowmelt water which then migrated out of pit and onto tundra.
8/17/89	89360122902	ARCO Alaska, Inc.	y	DS L3, Well 1 Doyon Rig, gravel pad in liner	Drilling muds	168	Picked up all muds plus some gravel. recycled back into rig shaker system.	Recycled	Crew member inadvertently opened a valve.
10/22/89	89360129502	ARCO Alaska, Inc.	y	DS 2, Well 10, Contained on pad	Seawater	168	Vac truck removed fluid, frozen material and gravel. fluid reused, frozen material and gravel taken to nsb sowp.	Multiple	Pump on a transport left on.
7/27/90	90360220802	ARCO Alaska, Inc.	y	SIP, Contained on pad	Seawater	168	Vac truck used, area flushed with fresh water. 420 gal fluid injected.	Subsurface Injection	Plug in end of transfer hose not replaced.
8/27/90	90360223901	ARCO Alaska, Inc.	y	SIP, Gravel pad	Seawater	168	Loader removed gravel, took to pad 3 sw pit.	Approved Landfill	Valve left closed causing gasket to rupture. 98% seawater, 1% glycol, 1% lube.
12/7/90	90360234101	Conoco	y	E-5 Well house, Cellar 12 x 12 area on pad	Other	168	Vac truck used, snow, ice, gravel removed to temp storage berm.	Interim Containment	Injection water.
1/27/91	91360902701	BPXA	y	H Pad Well 17, Contained on pad	Other	168	Snow removed with loader, taken to t pad.	Approved Landfill	50% methanol, 50% water.
4/14/91	91360210401	Nabors Alaska Drilling Inc.	y	DS 16 Well 9 Rig 2 ES, Outside cellar	Seawater	168	Loader, shovels removed frozen seawater and gravel. gravel/fluid taken to pad 3 sw pit.	Approved Landfill	Washing out well head with lockdown plug out.
7/18/91	91360119902	Dowell Schlumberger	y	Pad 12 Well 9, 15 sq ft pad	Diesel	168	Absorbents used. gravel scraped up, taken to landfill.	Approved Landfill	
8/14/91	91730522601	Audi	y	DS L-4 Well 32, Gravel pad	Drilling muds	168	Veco guzzler used, taken to pad 3 and pad 3 sowp.	Approved Landfill	Mineral oil based mud (70% mineral oil/30% water) overflowed due to displacement of pipe.
9/16/91	91730125902	ARCO Alaska, Inc.	y	DS 9 Well 45, Gravel pad	Crude	168	Loader, bucket removed gravel. absorbents used. gravel to pad 3, pads to nsb incin.	Incineration/approved Landfill	Flow back on well.
11/30/91	91730933401	Halliburton Services	y	APPROX 150' N OF L4-3, 20 SQ FT	Acid	168	Acid froze, then scraped it up with 966 loader; frozen acid taken to hallib.; melted in acid plant; neutralized; put inh20	Other	On recorder. 10% hydrochloric acid. CAUSE: OVERFILLED TRANSPORT WHILE TRANSFERRING LIQUIDS; MELTED, NEUTRALIZED AND PUT IN WATER RECOVERY TANK.
4/11/96	96399910201	ARCO	ym	East Prudhoe Bay, DS 11 WELL 31-32,	Produced Water	168	Took Report, Case Closed 01-00-00		Corrosion
8/1/98	98399921301	BPXA	y	EAST NORTH SLOPE, Well Pad Z,	Drilling Muds	168	Took Report, Case Closed 08-05-98		Human Error
3/10/01	01399906901	NABORS DRILL/BP EXPLORATION	y	West Prudhoe Bay, Well Pad Y,	Drilling Muds	168	Took Report, Complaint/Report Received 04-21-01		Leak
11/1/01	01399930501	DOWELL SCHLUMBERGER/BP EXPLORATION	y	BP, Well Pad Y,	Seawater	168	Took Report, Final Report 11-03-01		Equipment Failure
3/25/06	06399908402	BPXA	y	DS 16, EOA DS-16, Doyon Rig 14	Diesel	168	Phone Follow-up, Case Closed 05-11-06		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/13/06	06399919401	BPXA	y	Well Pad D,	Other	168	Phone Follow-up, Case Closed 07-19-06		Puncture
7/7/01	01399918801	BPXA	y	Drill Site 1 (DS-1), DS-1 FLOWLINE RUPTURE	Crude	160	Field Visit/s, Case Closed 11-06-01		Unknown
7/27/05	05399920802	BPXA	y	Gathering Center 2 (GC-2),	Corrosion Inhibitor	157	Phone Follow-up, Final Report 01-05-06		Equipment Failure
7/2/97	97399918301	BPXA	y	West North Slope, BP Well Pad F.,	Diesel	155	Took Report, Case Closed 08-13-97		Puncture
4/19/76	76360111001	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, PAD	Diesel	150	Contained with snow and gravel	Incinerated	
12/6/80	80360134101	Sohio	y	Spine Road between ARCO's fuel plant and N Pad, Not Given	Diesel	150	Not given.	Not Given	Entered 9-22-89 from handwritten reports.
3/25/81	81360108401	Sohio	y	E Pad, Prudhoe, Not given.	Antifreeze	150	Not given.	Not Given	Entered 9-28-89 from old records. Product triethelene glycol. Follow up 4-6-81.
6/21/81	81360117202	Sohio	y	MPC 15-11-12 Ex Site, Prudhoe, Not given.	Diesel	150	Not given.	Not Given	Entered 10-27-89 from old records. Follow up 7-7-81. MIxture diesel and crude.
11/15/81	81360131901	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU FUEL LOADING, contained on pad	Diesel	150	Loader removed snow. snow temporarily stockpiled, but will be disposed of at nsb landfill.	Approved Landfill	Entered 2-9-90 from old records. Ice blockage inside tanker truck caused overflow.
4/24/83	83360911401	SOHIO	y	Storage Yard, BOC Pad, Prudhoe Bay, Contained in snow.	Glutaralde hyde	150	Vac-u-max, storage drums.	Subsurface Injection	Type: Glutaraldehyde. Entered from old records 6/25/90.
11/23/83	83360932701	SOHIO	y	GC-3, Skid 450 Prudhoe, Unknown	Antifreeze	150	"floor-dry"	Not Given	MEG & Water Mix. Cause: Leaked during transfer. Entered from old records 7/30/90.
5/30/86	86360115003	ARCO Alaska, Inc.	y	Prudhoe Bay/MCC Pad,	Gasoline	150	Vacuumed up	Recycled	
7/5/88	88360118705	ARCO Alaska, Inc.	y	FS 2,	Reserve pit water	150	Contaminated gravel scooped up		
7/5/88	88360918705	ARCO Alaska, Inc.	y	FS 2, Flow Station 2	Reserve pit water	150	Gravel scraped up and hauled to pad 3	Approved Landfill	
2/27/89	89360105901	ARCO Alaska, Inc.	y	FS 2, Flare pit East of pad, Area 150' x 250' snow covered tundra	Crude	150	Snow blowers, trucks for larger areas, manual techniques for smaller areas. taken to snow melter, then pad 3	Multiple	Flare pit flame blew out in 100 mph winds, crude misted over snow. Mixture of crude and condensate. Underlying tundra not affected. Will be monitored throughout summer.
5/10/89	89360113005	Dowell Schlumberger	y	DS 13-4, snow on pad. Approx. 20 ft diameter	Other	150	Snow removed by loader, put into plastic drums. drums to ds facility, snow melted. disposed of in ww system at shop.	Other	Mixture 92 gal water, 10 gal F-40 (surfactant), 48 gal J237 (Dowell product), 560 lbs J-426 spilled when tank slid out of truck and overturned. Snow removed from 36 ft diameter to remove all contaminate. Fristoe downgraded to non hazard following lab rep

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/3/89	89360127602	ARCO Alaska, Inc.	y	Pad 10, near Seawater Injection Plant, 10-20 gallons to adjacent tundra pond.	Methanol	150	Absorbents used, vac truck. gravel removed by backhoe. methanon recycled, pads incinerated, gravel to nsb sowp.	Multiple	10-20 gal. reached tundra pond containing 1 million gallons water. No environmental damage expected. Water samples of pond did not detect any methanol.
2/6/90	90360103701	BPXA	y	H Pad Skid 54, West operating area, Some sprayed over snow in tundra adjacent to pad	Crude	150	Loader cleaning road, pad, pit. men will shovel off top layer of snow. will haul to t pad temp storage pit.	Approved Landfill	Final: Area of snow covering tundra has light spray. No plants showing, they expect zero impact. Area 50 x 400 ft. High pressure shut down caused tank overflow and 50 gal vented outside bldg.
8/12/90	90360922401	ARCO Alaska, Inc.	y	Pad 10 Manifold Bldg., Contained on pad	Methanol	150	Absorbents used, gravel put into temp lined area. gravel washed to recover material. gravel returned to lined area. fluid recycled. pads to c pad hwsf	Interim Containment	Leak in manifold building. Spill upgraded from 100 gal.on 8-21-90. Absorbents stored for eventual shipment to permitted HW facility. New liner installed and dikes enlarged.
12/17/90	90360935102	ARCO Alaska, Inc.	y	Pad 3, Contained on snow covered pad	Antifreeze	150	Supersucker and hand shovels removed snow, gravel. taken to pad 3.	Approved Landfill	Originally reported as 600 gal.
4/25/91	91360111503	NANA	m	VECO Fuel Tank Farm, Lined diked area	Diesel	150	Holes dug to allow pooling in low areas. vac truck to be brought in. will be incin. veco or nana's incin.	Incinerated	Tank truck overpressurized, valves blew.
7/16/91	91360119701	ARCO Alaska, Inc.	y	CCP, 15 x 25 on pad	Engine lube oil	150	Hand shovels, loader used. gravel taken to pad 3 sowp.	Approved Landfill	Compressor bearing chamber leaked oil from vent. Initial spill volume 250 gal.
7/25/91	91360220602	ARCO Alaska, Inc.	y	FS 3 Mod 4940, Contained on pad	Seawater	150	Super sucker removed 6 cy gravel. took to pad 3 sowp.	Approved Landfill	Breaker on sump pump tripped.
1/11/92	92730101101	ARCO Alaska, Inc.	y	CCP, Not given	Engine lube oil	150	Loader, bucket, shovels used. taken to flow station for recycle.	Recycled	Compressor
12/10/95	95399934401	ARCO	y	East Prudhoe Bay, DS 16, ARCO METHANOL	Methyl Alcohol (Methanol)	150	Phone Follow-up, Case Closed 12-10-95		Leak
10/14/97	97399928702	NORTH SLOPE BOROUGH	ym	East Prudhoe Bay, SOLID WASTE FACILITY,	Ethylene Glycol (Antifreeze)	150	Phone Follow-up, Case Closed 08-14-01		Line Failure
12/22/97	97399935601	B.P.	y	West North Slope, B.P. Well Pad M.,	Methyl Alcohol (Methanol)	150	Took Report, Case Closed 02-20-98		Leak
2/18/99	99399904901	BPXA	y	West Prudhoe Bay, BP, Well Pad T,	Produced Water	150	Took Report, Case Closed 03-01-99		Seal Failure
4/29/99	99399911901	ARCO	y	ARCO, CGF,	Drag Reducing Agent	150	Took Report		Line Failure
7/1/00	00399918303	BPXA	ym	West Prudhoe Bay, GC-2 PWX SECTION,	Crude	150	Took Report, Case Closed 07-19-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/20/01	01399914001	BPXA	y	East Prudhoe Bay, CENTRAL COMPRESSION PLANT TURBIN,	Engine Lube Oil	150	Took Report, Case Closed 08-01-01		Cargo Not Secured
12/14/01	01399934801	BPXA	y	West Prudhoe Bay, J PAD,	Methyl Alcohol (Methanol)	150	Phone Follow-up, Final Report 12-18-01		Valve Failure
10/14/04	04399928801	BPXA	y	Gathering Center 2 (GC-2),	Glycol, Other	150	Phone Follow-up, Final Report 11-01-04		Equipment Failure
2/23/05	05399905401	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	150	Took Report, Case Closed 02-24-05		Equipment Failure
3/16/05	05399907501	BPXA	y	BULK FUEL STATION, WOA,	Diesel	150	Took Report, Case Closed 03-18-05		Overfill
3/18/05	05399907704	NABORS ALASKA DRILLING	y	East Prudhoe Bay, DRILL SITE 17,	Seawater	150	Phone Follow-up, Case Closed 02-24-06		Gauge/Site Glass Failure
9/26/05	05399926902	BPXA	y	Flow Station 1 (FS-1),	Produced Water	150	Took Report, Case Closed 09-27-05		Unknown
1/10/06	06399901001	BPXA	y	Well Pad F,	Diesel	150	Field Visit/s, Case Closed Transferred To CSITES 11-07-06		Collision/Allision
2/25/06	06399905601	BPXA	y	Hot Water Plant,	Other	150	Phone Follow-up, Case Closed 08-31-06		Cargo Not Secured
8/4/06	06399921601	BPXA	y	Gathering Center 1 (GC-1),	Engine Lube Oil	150	Phone Follow-up, Case Closed 08-07-06		Equipment Failure
8/26/06	06399923801	BPXA	y	Gathering Center 2 (GC-2),	Engine Lube Oil	150	Took Report, Case Closed 08-31-06		Seal Failure
04/24/07	07399911401	BPXA	y	Drill Site 3,	Diesel	150	Phone Follow-up, Case Closed 04-26-07		Valve Failure
11/20/91	91730232401	BPXA	y	D Pad Well 4, contained on pad	Produced water	147	Loader removed material, taken to arco pad 3.	Approved Landfill	
7/14/02	02399919501	BPXA	y	Flow Station 1 (FS-1),	Produced Water	147	Field Visit/s, Case Closed 08-07-02		Erosion
4/15/01	01399910502	BPXA	y	East Prudhoe Bay, LISBURNE PRODUCTION CENTER MODUL,	Crude	146	Phone Follow-up, Case Closed 04-23-01		Corrosion
4/12/91	91360110202	ARCO Alaska, Inc.	y	FS 1, Snow in flare pit dike	Other	145	Material burning when released, so no cleanup required.	None Required	Natural gas liquids and gas condensate spilled when disc ruptured.
8/31/04	04399924401	BPXA	y	Flow Station 1 (FS-1),	Produced Water	143	Phone Follow-up, Case Closed 09-21-04		Corrosion
11/30/04	04399933501	BPXA	y	Central Compressor Plant (CCP),	Hydraulic Oil	140	Took Report, Case Closed 12-09-04		Equipment Failure
11/12/03	03399931601	BPXA	y	West Prudhoe Bay, S PAD,	Seawater	136	Phone Follow-up, Case Closed 11-14-03		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/5/01	01399903601	VECO ALASKA/BP EXPLORATION (ALASKA)	y	East Prudhoe Bay, EAST OPERATING AREA, NORTHERN GA,	Seawater	135	Took Report, Case Closed 02-15-01		Cargo Not Secured
01/29/07	07399902901	BPXA	y	Drill Site 11, BP East Prudhoe Bay	Hydraulic Oil	131	Took Report, Final Report 02-26-07		Crack
7/10/04	04399919201	BPXA	y	Apex Gas Injection Well Site,	Diesel	130	Phone Follow-up, Case Closed 07-12-04		Overfill
7/18/04	04399920001	BPXA	y	Well Pad C,	Produced Water	130	Phone Follow-up, Case Closed 07-21-04		Erosion
10/14/05	05399928702	BPXA	y	Well Pad Z,	Diesel	130	Took Report, Case Closed 10-17-05		Human Error
2/13/06	06399904402	BPXA	y	West Prudhoe Bay, GC-3 PAD, GC-3 skid 414 produced water	Produced Water	130	Phone Follow-up, Technical Assistance 02-14-06		Human Error
8/23/06	06399923501	BPXA	y	Gathering Center 3 (GC-3),	Produced Water	130	Phone Follow-up, Case Closed 10-06-06		Corrosion
5/28/76	76360114901	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Crude	126	Gravel removed	Padspred	
12/30/80	80360136501	ARCO Alaska, Inc.	y	DS 12, Well 2, Contained within wellhead shelter	Crude	126	Absorbents, shovels. all material taken to nsb incinterator/landfill.	Incineration/approved Landfill	Data entered 9-22-89 from handwritten reports.Ice plug in valve melted or discharged during maintenance.
4/3/81	81360109301	Sohio	y	C Pad, Prudhoe, Not given	Oil phase mud	126	Not given.	Not Given	Entered 10-24-89 from old records. Follow up dates 5-4-81 and 7-27-81
11/29/81	81360133301	ARCO Alaska, Inc.	y	DS 9 small lake behind drillsite, Unknown	Other	126	No containment procedures done. disposal not given.	Not Given	Entered 2-16-90 from old records. Waste oil, TEG and glycol dumped during reported backflush of tank into lake or hose contamination. Driver and dispatcher reported discharged following incident.
3/4/82	82360106301	ARCO Alaska, Inc.	y	DS #5, manifold bldg, Occured at Manifold Bldg.	Crude	126	Suck truck then absorbent pads.	Multiple	Crude oil injected at Pad #3 and pads to NSB incinerator. Cause: drain valve left open. Entered from old records 4-28-90.
6/7/82	82360115801	ARCO Alaska, Inc.	y	West Bay State #1, Prudhoe Bay, Edge of gravel dike for flare pit + tundra.	Crude	126	Shoveled gravel and used absorbent pads for tundra.	Multiple	Hydrocarbon misted from flare pit & carried by wind. Gravel reused on main spine rd. and pads to NSB incinerator. Entered from old records 4-28-90.
12/18/83	83360135201	ARCO Alaska, Inc.	y	DS 11 Prudhoe, DS 11 to Main Spine Rd.	Crude	126	Front end loader.	Not Given	Cause: Vacuum truck door opened. Entered from old records 7/30/90.
9/7/85	85360125001	SOHIO Alaska Petroleum Company	y	SOHIO S Pad,	Drilling muds	126	Neutralized with soda ash	Not Given	
2/2/86	86360103302	ARCO Alaska, Inc.	y	Lisburne LT Pad,	Crude	126	Contaminated snow scraped up		

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/15/86	86360104601	Sohio Alaska Petroleum Company	y	H-Pad, Skid 54,	Crude	126	Contaminated snow scraped up		
4/22/86	86360911201	Sohio Alaska Petroleum Company	y	GC 2, Skid 481,	Glycol	126	Scraped up contaminants	Interim Containment	
6/9/86	86360116001	Sohio Alaska Petroleum Company	y	Gathering Center 3, Skid 20,	Crude/triethylene clycol	126	Vacuumed liquid/contaminated gravel scraped up	Multiple/see Comments	liquid injected into GC-3 ullage system/contaminant put in B-Pad RP
7/6/86	86360118703	ARCO Alaska, Inc.	y	DS 16,	Diesel	126	Soaked up with sorbents	Incinerated	
9/9/86	86360125201	ARCO Alaska, Inc.	y	FS 1 Prudhoe Bay,	Crude	126	Soaked w/sorbent pad-contaminated gravel scraped	Incinerated	
11/4/86	86360130802	N. L. Baroid	m	Prudhoe Yard,	Oil phase mud	126	Vacuumed liquid-scraped contaminated snow-sorbents	Approved Landfill	
11/11/86	86360131501	ARCO Alaska, Inc.	y	DS 14,	Crude	126	Scraped up contaminated snow	Approved Landfill	
3/4/87	87360106301	Standard Alaska Production Com	y	J-15,	Diesel/crude	126	Contaminants scraped up	Interim Containment	
9/22/87	87360126502	ARCO Alaska, Inc.	y	DS 5, Cellar of well and 10' X 10' area on pad	Drilling muds	126	Vacuumed up liquid/scraped up contaminated gravel.	Approved Landfill	
9/27/87	87360127001	ARCO Alaska, Inc.	y	Pad 3, Unknown	Crude	126	Soaked up with sorbents	Incinerated	
10/13/87	87360128601	ARCO Alaska, Inc.	y	DS 11, Well 3,	Crude	126	Soaked up with sorbents	Incinerated	Even though Final Report was received on 10/20/87, entry not closed
10/14/87	87360128701	ARCO Alaska, Inc.	y	Lisburne Production Center,	Crude	126	Soaked up with sorbents	Incinerated	
2/22/88	88360105201	ARCO Alaska, Inc.	y	LGI #4 Reserve Pit, Area around reserve pit	Drill mud	126	Contaminants scraped up	Interim Containment	Overflow of RP due to ice.
7/2/88	88360118402	ARCO Alaska, Inc.	y	Lisburne DS I-3, Well 30, 40'x40' gravel area/ 40'x80' tundra	Diesel/diesel 90/10	126	Absorbents/ contaminated gravel removed	Multiple/see Comments	temperature gas lift line failed during hydrotest
7/4/88	88360118605	Standard Alaska Production Com	y	Well G-16, contained in gravel on pad	Crude	126	Scraped up with bucket loader/pooled with absorb	Multiple/see Comments	
7/5/88	88360118703	ARCO Alaska, Inc.	y	L3,	Crude/diesel mixture	126	2gal was spread over 70x80'in fine mist; rest on*	Padspred	
7/7/88	88360118901	ARCO Alaska, Inc.	y	DS 3 - 9, On road at Y betw DS 3 and 9	Slick water w/gel	126	Picked up contam gravel;rest bladed in	Approved Landfill	Circulation hose on tanker broke free
10/13/88	88360128702	ARCO Alaska, Inc.	y	FS 2, contained on pad	Crude	126	Absorbents and super-sucker vac truck		Plugged drain valve.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/18/88	88360132301	ARCO Alaska, Inc.	y	DS 5, Well 16, contained on pad	Diesel	126	Snow picked up by loader	Approved Landfill	tanker truck steam coil leak
1/13/89	89360101301	ARCO Alaska, Inc.	y	DS 3, Well 27, contained on pad in snow	Seawater	126	Loader used to scrape up contaminated snow	Recycled	valve was on seawater tank
6/19/89	89360117001	ARCO Alaska, Inc.	y	DS 14, Well 3, Contained on pad	Diesel	126	Absorbents used, loader used on gravel. sorbents taken to nsb incinerator, gravel to nsb sowp.	Multiple	During well workover, valve was opened while pump was in gear.
7/21/89	89360120201	ARCO Alaska, Inc.	y	DS L3, Well 1, contained on pad	Drilling muds	126	Absorbents used, mud removed by loader. sorbents to nsb incinerator, materials recycled.	Multiple	Connection on Doyon 9 rig vibrated open.
10/4/89	89360127701	ARCO Alaska, Inc.	m	Water Plant, Contained on pad.	Other	126	Super sucker used to remove gravel, taken to nsb sowp.	Approved Landfill	2 lb. biozine water based gel spilled when barrel counter not reset properly and overloaded and spilled.
10/16/89	89360128902	ARCO Alaska, Inc.	y	DS 3, Well 7, Contained on pad and reserve pit	Crude	126	Vac truck for liquid, absorbents used, hand shovels removed gravel. sorbents to nsb incinerator, fluids to pad 3 sowp.	Multiple	95% seawater, 3% diesel, 2% crude spilled when return tank overfilled.
11/17/89	89360232101	Dowell Schlumberger	y	DS 2-21, Contained on pad.	Other	126	Super sucker used, snow scraped up (6 to 7 yds os snow, ice and gravel) taken to sow dumpster.	Approved Landfill	Mixed water for cement.
11/24/89	89360132803	ARCO Alaska, Inc.	y	LPC Slop Loading Rack, Contained on pad	Crude	126	Absorbents used, gravel removed. sorbents to burnable dumpster, gravel to nsb sowp.	Incineration/approved Landfill	Vent line on tank plugged or froze causing oil to overflow.
1/2/90	90360900201	ARCO Alaska, Inc.	y	J Pad, Gravel pad	Methanol	126	Vac truck, loader removed fluid and snow. both melted, recycled.	Recycled	While loading material, tanker overflowed due to faulty sight glass.
2/6/90	90360203701	ARCO Alaska, Inc.	y	DS L5 Well 29, Contained on pad and containment area	Seawater	126	Scraped up and melted, injected at pad 3.	Subsurface Injection	Update on cause and cleanup/disposal 2-8-90 by Hanson.
3/18/90	90360907701	Halliburton Services	y	DS L4, Gravel pad	Other	126	Drill site maintenance cleaned up with loaders, took to snow melter for recycling.	Recycled	Mixture water and 2% KCL, potassium chloride, spilled when frac tank overfilled.
5/13/90	90360213301	Halliburton Services	y	DS 17 Well 12, Snow, ice	Gelled water	126	Dug up, used super sucker. taken to halliburton waste treatment plant.	Approved Landfill	Hose blew off connection, leaking gel water.
6/18/90	90360216901	ARCO Alaska, Inc.	y	Central Gas Facility, Contained on pad	Seawater	126	Supersucker vacuum truck used to remove material and gravel and taken to pad 3 swdp.	Approved Landfill	Mixture seawater and 5,000 ppm gluteraldehyde, a biocide, spilled when small leak in upright tank dripped overnight.
7/5/90	90360218601	ARCO Alaska, Inc.	y	SIP, Contained on pad	Seawater	126	Gravel removed, taken to pad 3.	Approved Landfill	
8/9/90	90360922101	ARCO Alaska, Inc.	y	DS 13 reserve pit by Well 26, Directed into reserve pit	Other	126	Vac up free liquids, leave solids in pit. liquid injected pad 3.	Subsurface Injection	HEC Pill (thickener for drilling muds) ratio 9 lbs HEC to 126 gal seawater.
10/30/90	90360230301	Little Red Services	m	Not given, Contained in pit	Seawater	126	Removed snow and placed in dike to melt.	Not Given	Circulating tank valve opened and overfilled another tank. Info FAXed and incomplete as to location.
2/21/91	91360105202	Little Red Services	y	DS 7 Well 9, 20 x 30 snow on pad	Crude	126	Scraped up, put in open top tank, melted, recycled fs 1.	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/21/91	91360205201	Peak Oilfield Services	y	East Dock, 3-4 sq ft snow on gravel	Seawater	126	Loader used. material taken to nsb incinerator.	Incinerated	Tiger tank line broke.
6/13/91	91360116401	ARCO Alaska, Inc.	y	DS 3 along flowline, Sheen on stream that flows off Sag River	Crude	126	Areas bermed, sorbents used, taken to pad 3 swp. evacuating oil from pipe. substantial internal corrosion. joints wrapped with sorbent and plastic.	Approved Landfill	Leaking joint along pipeline/flow line possibly related to corrosion. Interim: 6/16. 23 leaks found in DS 16/17 Common line C. Probably velocity induced.
7/18/91	91360219901	Halliburton Services	y	DS 14 Well 37, Gravel	Gelled water	126	Removed water and 1 cy gravel, took to arco pad 3 sowp.	Approved Landfill	Frac blender tub overflowed.
8/20/91	91730223201	ARCO Alaska, Inc.	y	DS 12 Well 14, 5 x 5 on pad	Gelled water	126	Loader, supersucker used. gravel to pad 3 swp.	Approved Landfill	Residual in tank spilled during move of tank.
9/28/91	91730127103	Prudhoe Bay Drilling	m	Audi Rig 4, Gravel	Crude	126	Absorbents, vac truck used. gravel removed, taken to arco pad 3.	Approved Landfill	On recorder. Crude sprayed from tank.
12/3/91	91730233701	ARCO Alaska Inc.	y	DS 3 Well 26, Contained on pad	Gelled water	126	Snow shoveled up by loader, taken to pad 3.	Approved Landfill	Gelled water with possible trace of crude spilled while pumping well-bore fluids into open top tank.
12/4/91	91730233801	ARCO Alaska Inc.	y	LPC, Gravel pad	Produced water	126	Loader/bucket scraped up snow/ice. taken to melt tank for recycling.	Recycled	
3/1/92	92730206201	Alaska Petroleum Contractors	y	DS 2 Well 26, Snow/ice on gravel pad	Seawater	126	Loader scraped up material, took to snow melt tank. will use as cut water after melted.	Approved Landfill	Final did not give amount recovered.
12/6/95	95399934001	DOWELL SCHLUMBERGER	ym	East Prudhoe Bay, ARCO DS 18 WELL 11,	Other	126	Phone Follow-up, Case Closed 01-00-00		Containment Overflow
2/25/96	96399905602	VECO	y	East Prudhoe Bay, DS 13,	Crude	126	Took Report, Case Closed 01-00-00		Overfill
1/29/98	98399902901	B.P.	y	West North Slope, B.P. Well Pad D.,	Seawater	126	Took Report, Case Closed 01-00-00		Overfill
4/23/98	98399911301	ARCO	y	EAST NORTH SLOPE, ARCO DS 2.,	Crude	126	Took Report, Case Closed 07-16-98		Overfill
9/23/98	98399926602	BPXA	y	West North Slope,Well Pad T,	Produced Water	126	Took Report, Case Closed 01-00-00		Other
5/27/00	00399914802	PHILLIPS ALASKA	ym	East Prudhoe Bay, DRILLSTIE 18 WELL 22A,	Other	126	Field Visit/s, Case Closed 06-01-00		Other
8/14/00	00399922702	BPXA	y	East Prudhoe Bay, EAST OPERATING AREA, FLOW STATIO,	Crude	126	Field Visit/s, Case Closed 12-07-00		Cargo Not Secured
6/13/03	03399916402	BPXA	y	Well Pad A,	Crude	126	Took Report, Case Closed 06-17-03		Leak
8/30/04	04399924301	BPXA	y	Well Pad Z,	Drilling Muds	126	Phone Follow-up, Case Closed 09-14-04		Containment Overflow
1/3/05	05399900302	BPXA	y	Lisburne Production Center (LPC),	Produced Water	126	Took Report, Case Closed 01-21-05		Human Error
4/5/05	05399909502	BPXA	y	Well Pad J,	Crude	126	Field Visit/s, Final closure pending 04-21-05		Line Failure
4/5/05	05399909503	BPXA	y	Gathering Center 2 (GC-2),	Crude	126	Took Report, Case Closed 04-26-05		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/5/05	05399918601	BPXA	y	Well Pad N,	Seawater	126	Took Report, Case Closed 07-05-05		Line Failure
5/30/81	81360115001	Sohio	y	Mobile tract well MPCS 33-11-12 Prudhoe, Not given.	Crude	125	Not given.	Not Given	Entered 10-26-89 from old records. Mixture crude/diesel. Follow up 6-4-81.
10/5/85	85360127804	ARCO Alaska, Inc.	y	Seawater Injection Plant,	Crude*	125	Cleaned with vacuum truck		12 Bbl dirty water also - oil was already in truck.
11/6/85	85360131001	Sohio Alaska Petroleum Company	y	J-Pad, Wellhouse 12,	Crude	125	Soaked up with absorbent pads/scraped up contamina		
5/10/89	89360113004	Unknown	y	GC 2, contained in snow and ice under skid bldg	Crude	125	Scraped up with shovels, taken to melter for recovery	Recycled	Gasket failed in flange on pig trap.
3/23/92	92730908301	BPXA	y	N Pad Well 10, contained in ice on pad	Other	125	Shovels used. hcl neutralized with baking soda. all contaminants taken to halliburton acid tank.	Interim Containment	Clayfix with 20% HCL spilled when valve stuck in open position.
5/26/01	01399914601	BPXA	ym	East Prudhoe Bay, SIP INJECTION WELL #2,	Produced Water	125	Took Report, Case Closed 05-31-01		Valve Failure
5/8/03	03399912801	BPXA	y	Drill Site 14,	Methyl Alcohol (Methanol)	125	Phone Follow-up, Final Report 06-05-03		Overfill
4/21/96	96399911201	ARCO	y	Flow Station 2 (FS-2),	Produced Water	124	Took Report, Final Report 05-11-96		Corrosion
4/21/05	05399911101	BPXA	y	Lisburne Production Center (LPC),	Other	122	Took Report, Case Closed 04-29-05		Human Error
5/2/98	98399912203	ARCO	y	EAST NORTH SLOPE, ARCO L1.,	Crude	121	Took Report, Case Closed 01-00-00		Leak
4/15/90	90360110502	Prudhoe Bay Commercial Center	y	COTU, 30 x 200 at loading dock area	Diesel	120	Super sucker, loader, dump truck used. fuel burned in waste oil heaters. gravel/water being tested. material in lined dike.	Multiple	Responsible party assumed other party had reported resulting in late report. Cleanup satisfactory to ARCO.
7/12/91	91360119301	BPXA	y	F Pad, Gravel pad	Diesel	120	Gravel removed. disposal not given.	Not Given	Recorder.
7/13/91	91360119404	BPXA	y	F Pad Well 14, Gravel	Diesel	120	Absorbents used on pooled diesel. gravel removed by grader and loader. pads to nsb incin., gravel to arco pad 3.	Incineration/approved Landfill	
1/29/92	92730902901	NORGASCO	y	FS 1, 100 sq ft tundra/snow/ice	Methanol	120	Shoveled, bagged contaminated snow. pads used. disposal pending further review.	Interim Containment	Originally reported as 60 gal. spill. Disposal pending due to DEC objection to incineration. Resp. Party will inspect after breakup.
1/27/96	96399902702	BPXA	y	West Prudhoe Bay, GC3 SKID 404,	Crude	120	Took Report, Case Closed 01-31-96		Equipment Failure
4/28/97	97399911801	ARCO	y	EAST NORTH SLOPE, ARCO CGF.,	Drag Reducing Agent	120	Phone Follow-up, Case Closed 05-03-97		Other
12/14/97	97399934801	ARCO	y	EAST NORTH SLOPE, ARCO DS 14 MANIFOLD BLDG.,	Hydraulic Oil	120	Took Report, Case Closed 01-00-00		Seal Failure
12/15/97	97399934902	B.P.	y	EAST NORTH SLOPE, B.P. ARCO DS 13.,	Drilling Muds	120	Took Report, Case Closed 01-00-00		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/30/00	00399912101	ARCO ALASKA	y	East Prudhoe Bay, LISBURNE DRILLSITE L3,	Ethylene Glycol (Antifreeze)	120	Field Visit/s, Case Closed 09-06-00		Seal Failure
3/14/04	04399907401	BPXA	y	Seawater Injection Plant (SIP),	Seawater	120	Phone Follow-up, Final Report 06-25-04		Corrosion
4/5/04	04399909601	BPXA	y	COTU,	Diesel	120	Phone Follow-up, Case Closed 04-14-04		Overfill
7/19/04	04399920101	BPXA	y	Well Pad H,	Crude	120	Phone Follow-up, Case Closed 07-27-04		Equipment Failure
1/13/05	05399901301	BPXA	y	Seawater Injection Plant (SIP),	Other	120	Phone Follow-up, Case Closed 01-18-05		Valve Failure
6/11/05	05399916201	ASCI	y	Base Operation Center (BOC),	Diesel	120	Field Visit/s, Final Report 10-13-05		Valve Failure
12/17/06	06399935101	BPXA	y	Gathering Center 3 (GC-3),	Glycol, Other	120	Field Visit/s, Case Closed 12-19-06		Line Failure
11/02/07	07399930602	BPXA	Y	Central Gas Facility (CGF), Central Gas Facility (CGF)	Hydraulic Oil	120	Took Report, Complaint/Report Received 11-05-07		Equipment Failure
12/28/99	99399936201	BPXA	ym	EAST NORTH SLOPE, BADAMI PROCESSING FACILITY,	Other	118	Took Report, Case Closed 12-30-99		External Factors
7/3/06	06399918401	BPXA	y	Gathering Center 2 (GC-2),	Diesel	116	Took Report, Case Closed 07-05-06		Line Failure
3/8/99	99399906701	BPXA	y	ARCO, J-PAD,	Other	115	Took Report, Case Closed 03-12-99		Other
1/14/02	02399901401	BPXA	y	Well Pad F, WELL #48, F-PAD Well 48	Crude	115	Field Visit/s, Final Report 03-11-02		Erosion
08/08/07	07399922003	BPXA	y	Gathering Center 2 (GC-2),	Diesel	115	Took Report, Case Closed 08-21-07		Containment Overflow
8/23/89	89360123503	ARCO Alaska, Inc.	y	DS 5, Well 19, Contained on pad	Drilling muds	113	Mud and gravel picked up with super sucker. put in lined pit at ds 2.	Interim Containment	Nipple in well head cracked and caused discharge.
9/15/91	91730225802	BPXA	y	GC1 Skid 326, Contained on pad	Produced water	113	Absorbents used, taken to nsb incinerator.	Incinerated	Vac truck overflow.
12/21/02	02399935501	BPXA	y	Drill Site 11,	Corrosion Inhibitor	112	Phone Follow-up, Case Closed 01-21-03		Line Failure
1/22/85	85360102202	Sohio	y	GC-1, Skid 25,	Crude	110	Con. snow, gravel & water scraped up		
2/13/85	85360104405	Sohio	y	BOC pad,	Diesel	110	Con. snow & ice picked up with bucket loader		
3/6/88	88360106601	Standard Alaska Production Com	y	G-15,	Diesel	110	Contaminants scraped up	Approved Landfill	
5/23/89	89360114301	BPXA	y	Spine Road, Prudhoe, snow and ice on berm shoulder of road	Hydraulic oil	110	Pooled fluid soaked up with absorbents, snow scraped up with shovels and loader. sorbents to incinerator, snow melted for recycle.	Multiple	Otis snubbing unit fell of back of trailer.
12/19/90	90360235301	BPXA	y	GC 1, Contained on pad	Produced water	110	Snow/gravel removed with blade. taken to t pad pit.	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/14/91	91360901401	VECO	m	Warehouse #1 on Spine Road, Snow & Gravel	Antifreeze	110	Snow/gravel removed, put in veco contaminated storage area at deadhorse.	Interim Containment	
7/5/91	91360218601	ARCO Alaska, Inc.	y	DS 11 Well 6, 30 x 30 gravel pad	Seawater	110	Super sucker used. pad 3 for injection and sowp.	Multiple	Valve popped due to pressure.
9/28/91	91730127106	BPXA	y	U Pad SE corner, 150 sq ft tundra	Diesel	110	Absorbents used. gravel/tundra to be removed and replaced. sorbents to nsb incin. gravel/tundra washed at a3w2 prior to disposal t pad or arco pad 3.	Incineration/approved Landfill	Boom slid off truck during transport. 26.29 cy tundra removed, replaced w/clean overburden. Area fertilized/reseeded. Depth went well beyond vegetative root system. Area will be monitored. Interim report 10-3.
11/3/91	91730130701	BPXA	y	Y Pad Well 4, Contained on pad	Crude	110	Guzzler, loader, shovels removed snow/gravel. taken to arco pad 3.	Approved Landfill	Driver attempted to load tanker already full.
4/8/98	98399909801	ARCO	y	EAST NORTH SLOPE, ARCO POINT MAC #1 WELL 24.,	Crude	110	Phone Follow-up, Case Closed 07-01-98		Overfill
3/4/99	99399906301	NABORS	y	ARCO, DRILL SITE 14,	Seawater	110	Took Report, Case Closed 03-07-99		Overfill
8/20/00	00399923301	BPXA	ym	East Prudhoe Bay, GC-1 PWX SECTION, SKID 407,	Crude	110	Took Report, Case Closed 08-22-00		Gauge/Site Glass Failure
2/5/05	05399903601	BPXA	y	Seawater Injection Plant (SIP),	Other	110	Took Report, Final Report 02-07-05		Equipment Failure
5/4/05	05399912403	BPXA	y	Well Pad L,	Diesel	109	Took Report, Case Closed 05-09-05		Leak
9/16/87	87360125901	Standard Alaska Production Com	y	J Pad, Well 28, Area around well head	Crude	105	Vacuumed up liquid/soaked up with sorbents	Liquids Recycled/sorbents Incinerat	
4/1/88	88360109201	ARCO Alaska, Inc.	y	DS 3, Well 1, Area around cellar	Diesel	105	Soaked up with sorbents	Incinerated	Cellar overflow.
1/12/90	90360101201	ARCO Alaska, Inc.	y	DS Maintenance Pad south of airstrip at Prudhoe., 20 x 20 ft tundra next to pad	Crude	105	Shovels, super sucker used, snow berm over absorbent boom. 20% (210 gal) contained until breakup, when bermed area will be drained.	Interim Containment	Total volume spilled 1050 gal, 1% is crude (105 gal). Original report was 5 gal crude, 126 gal dirty fresh water. Spilled while trying to thaw storage tank hot water hose. Hose disconnected, spraying onto pad, rolled off onto tundra. 210 gal mix remained
9/30/90	90360127302	ARCO Alaska, Inc.	y	DS 6 Well 16, Contained on pad	Crude	105	Absorbents used, vac truck, loader, shovels removed gravel 3. 45 gal. recycled fs 1, gravel to pad 3, pads incin.	Multiple	Tiger tank loaded w/50/50 mix water, crude for total of 210 gal. Heat caused expansion of fluid.
11/3/91	91730930701	Canadian Fracmaster	y	DS 9 Well 33, 1/8 yd snow on gravel	Methanol	105	Vac truck used. liquid reused on site, dirt taken to pad 3.	Approved Landfill	50% methanol/50% water spilled from coiled tubing valve.
8/3/97	97399921504	ARCO	y	EAST NORTH SLOPE, ARCO DS 17.,	Hydraulic Oil	105	Phone Follow-up, Case Closed 01-00-00		Valve Failure
5/27/01	01399914701	BPXA	y	West Prudhoe Bay, GATHERING CENTER-1 OIL SECTION,	Crude	105	Took Report, Case Closed 05-28-01		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/19/81	81360117001	Sohio	y	GC 1, skid 30, Prudhoe, west operating area, Not given.	Other	104	Not given.	Not Given	Entered 10-27-89 from old records. Follow up 7-7 and 9-9-81. Emulsifier mix 1-2-bbls, biocide (XL 505) 20 gallons.
2/12/87	87360104301	Standard Alaska Production Com	y	B-7,	Diesel	102	Soake up w/sorbents-contaminants scraped up	Interim Containment	
4/27/78	78360111701	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Diesel	100	Sorbent pads	Incinerated	V.E. Construction Inc.
4/26/81	81360111601	ARCO Alaska, Inc.	y	DS 16 Pad B, 100 x 100 feet tundra	Diesel	100	Alaska offshore, inc. cleaned up. absorbents used, incinerated at nsb. small amt. diesel open burned on location (adec approved), gravel to nsb.	Multiple	Entered 10-25-89 from old records. Follow up dates 10-23-81 and 12-2-81.
9/4/81	81360124701	ARCO Alaska, Inc.	y	COTU, Gravel pad	Crude	100	Loader removed residual on pad. contaminated gravel spread on road area adjacent to plant.	Padspread	FOLLOWUP 9/21/81
9/4/81	81360124705	ARCO Alaska, Inc.	y	COTU, Contained on gravel	Crude	100	Picked up and worked into road in front of cotu/pboc as per road oiling permit.	Other	Entered 11-20-89 from old records. Follow up 9-21-81.
12/30/81	81360136401	Sohio	y	A Pad, Not given	Diesel	100	Not given	Not Given	Entered 2-21-90 from old records.
11/10/82	82360131501	ARCO Alaska, Inc.	y	Drill Site #14, Manifold Bldg., Prudhoe Bay, Diesel on gravel pad under the manifold bldg.	Diesel	100	Vacuum truck and absorbent pads.	Multiple	Oily waste injected into well-pad #3 & pads to NSB incinerator. Entered from old records 4-28-90.
6/2/83	83360115301	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Diesel	100	Sorbents, remove gravel		
9/6/83	83360124902	ARCO Alaska, Inc.	y	Pad 10, Prudhoe, None	Diesel	100	P/u contaminated gravel.	Unknown	Entered from old records 7/8/90.
10/19/83	83360129201	SOHIO	y	East Dock, Prudhoe, None	Diesel	100	Sorbents, picked up.	Unknown	Entered from old records 7/10/90.
11/13/83	83360931703	SOHIO	y	M Pad, Skid 54, Prudhoe, Unknown	Antifreeze	100	Pump/shoveled/plastic bag.	Not Given	Type: MEG. Entered from old records 7/27/90.
11/27/83	83360933101	SOHIO	m	Not stated., Unknown	Antifreeze	100	Trash pump/scraped.	Not Given	Entered from old records 7/30/90.
5/31/85	85360115102	ARCO Alaska, Inc.	y	Prudhoe East Dock Whse E,	Waste crankcase	100	Alaska offshore was on site cleaning up	Not Given	
8/12/86	86360122401	ARCO Alaska, Inc.	y	DS 3,	50% bio-side	100	Contents transferred to reserve pit	Interim Containment	
9/27/86	86360927001	Standard Alaska Production Com	y	GC - 1, Skid 19,	Meg	100	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	Heat trace failure.
10/20/86	86360929301	ARCO Alaska, Inc.	y	Central Gas Facility,	Glycol 60%/water 40%	100	Soaked w/dry sorbents-shoveled up	Incinerated	
1/5/87	87360900501	ARCO Alaska, Inc.	y	FS 1 Prudhoe Bay, Small area around tanker truck	Methanol	100	Soaked up liquid-contaminants scraped up	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/20/87	87360120102	Standard Alaska Production Com	y	GC-2, Tank T-7500, Area around Tank T-7500	Crude	100	Vacuumed up liquid/soaked w/sorbents/contam. scrap	Sorbents Incinerated/cons. To Npad	
8/5/87	87360921701	ARCO Alaska, Inc.	y	CGF, Some tundra toward east end of pad	Glycol	100	Vacuumed liquid/soaked up with sorbents	Liquid Injected/sorbents Incinerate	
8/15/87	87360922701	ARCO Alaska, Inc.	y	DS 11, L5 Access Road, 500 yd long 6" wide plus 6 ft pool at end	Hcl	100	Used soda ash and water	Will Be Left In Place (see Comment)	Presently testing spill site - testing may dictate other disposal
10/16/87	87360928901	ARCO Alaska, Inc.	y	CGF,	Therminol	100	Vacuumed liquid/soaked up with sorbents	Subsurface Injection	
12/19/87	87360935301	ARCO Alaska, Inc.	y	COTU,	Glycol	100	Contaminated snow scraped up	Interim Containment	
3/7/88	88360106701	ARCO Alaska, Inc.	y	LPC,	Produced water/crude	100	Snow melted down for recycle	Recycled	
6/9/88	88360116101	ARCO Alaska, Inc.	y	DS 3, Well 22, DS 3, Well 22	Crude	100	Gravel removed	Incinerated	C Pad sorbents to incinerator
6/20/88	88360117201	ARCO Alaska, Inc.	y	LPC, contained on pad	TEG/Water	100	Vacuum truck	Unknown	TEG and Water 50% mixture/what type disposal at Pad 3 not stated
6/21/88	88360117306	ARCO Alaska, Inc.	y	LPC,	TEG/Water	100	Soaked w/sorbents	Approved Landfill	Oiltype: TEG/water
6/21/88	88360117308	ARCO Alaska, Inc.	y	Pad 3,	TEG/Water	100	Absorbents		material spilled TEG/water
6/25/88	88360117702	ARCO Alaska, Inc.	y	DS 9, Well 35,	Diesel	100	Contained on pad; loader scooped up	Approved Landfill	
7/23/88	88360120502	ARCO Alaska, Inc.	y	between CO2 and Flow Sta. 2, all but 20 gallons confined to gravel road	Diesel	100	Absorbents/contaminated gravel picked up	Incineration/approved Landfill	
9/18/88	88360126202	ARCO Alaska, Inc.	y	DS 3, Manifold building, contained on pad	Corrosion inhibitor	100	Material back into tank, hand shovels for gravel	Material Recycled, Gravel Shipped	
10/10/88	88360128401	ARCO Alaska, Inc.	y	DS 13, contained on pad 10' x 15' area	Corrosion inhibitor	100	Contaminated snow & gravel removed/absorbents	Multiple/see Comments	
11/5/88	88360131002	ARCO Alaska, Inc.	y	J Pad, eastern operating area, contained on pad	Methanol	100	Contaminated snow picked up by loader	Multiple/see Disposal	wrong valve opened during truck unloading caused other truck overfill
1/3/89	89360900301	ARCO Alaska, Inc.	y	NGI, Well 6, SE of Pad, contained on pad	Acid	100	Immediately neutralized/loader removed snow		material leaked from stationary tanker due to a faulty valve
3/7/89	89360106603	BPXA	y	GC 2, fell on snow covered gravel pad	Diesel	100	Snow and gravel picked up	Subsurface Injection	level indicator failed on diesel tank.
5/28/89	89360114802	BPXA	y	GC 2 flow lines on access road., contained on pad	Other	100	Unable to recover. will flush with fresh water from adjacent lake. no oil in water.	Other	Quantity less than 100 gal. from salt water line leak.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/3/89	89360118405	ARCO Alaska, Inc.	y	Central Compressor Plant, contained on pad	Diesel	100	Absorbents used, loader for gravel. sorbents to nsb incinerator, gravel to nsb sowp.	Multiple	Material leaked from fuel supply line on surplused camp located on facility pad.
6/5/90	90360215601	H.C. Price	y	Central Gas Facility Pad, Pad 8' x 100'	Seawater	100	Sump holes dug in gravel. vac truck used. disposal at pad 10 disposal pit.	Approved Landfill	Mixture seawater and 250 ppm glutaraldehyde leaked from 3/4" plug on high point vent on 6" liquids line during hydrotest.
6/24/90	90360917501	BPXA	y	GC II skid 41, Contained on pad	Other	100	Marooka will be used to remove all contaminates. gravel will be hauled to arco pad 3.	Approved Landfill	Unattended pump.
8/2/90	90360921403	ARCO Alaska, Inc.	y	FS 2 Module 4940, Contained on pad	Produced water	100	Absorbents used, hand shovels removed gravel. pads incinerated, gravel to pad 3 pit.	Incineration/approved Landfill	Leak from connection during transfer.
8/14/90	90360122601	BPXA	m	Under Module 303, Contained on pad	Crude	100	Absorbents used, gravel scalped. gravel placed in contaminated oil disposal area.	Approved Landfill	Crude and water (no ratios) spilled while pulling blind from 1st stage inlet.
10/15/90	90360228802	BPXA	y	H Pad Well 8, Contained on pad	Seawater	100	Scraped up, taken to pad 3.	Approved Landfill	
10/29/90	90360530201	BPXA	y	GC 2 North end of pad, Contained on pad	Other	100	Loader to remove material. will be incinerated at nsb.	Incinerated	Sewage discharged because of lack of coordination between contractor and vac truck driver. Conam cleaning up, BPX Enviro will monitor.
11/9/90	90360231301	Dowell Schlumberger	m	DS Warehouse, Not given	Other	100	Water/ snow picked up, put back in tank. ground will be scraped. disposal not given.	Not Given	Water on ground result of fire.
2/14/91	91360204501	BPXA	y	X Pad 10, Contained on pad	Seawater	100	Material removed, taken to t pad lined pit.	Interim Containment	70 gal seawater, diesel 30 gal.
4/2/91	91360209201	BPXA	y	U Pad Module 69, Reserve pit	Seawater	100	None. material to be removed during dewatering this spring.	Other	Flowline corrosion salt water found by field personnel. Salt water drainging into reserve pit, mixing with snow. Flowline being patched.
4/20/91	91360511001	ARCO Alaska, Inc.	y	DS Maintenance holding tank, 150 sq ft gravel pad	Other	100	Loader removed material, returned to holding tank.	Recycled	Sewage spilled when ball valve leaked.
5/2/91	91360912201	BPXA	y	GC 2 skid 407 West operating area, 800 sq ft snow (85%) and gravel (15%)	Antifreeze	100	Loader being used. taken to t pad temp storage (lined).	Interim Containment	Valve failure allowed drain to overfill.
7/4/91	91360118501	Conoco	y	DS L4 and L5, Behind on pad, 5 x 200 gravel pad	Diesel	100	Vac truck, loader, shovels, absorbents used. sorbents to burnable dumpster, liquid recycled, gravel to l pad temp storage berm.	Interim Containment	Suspect spill occurred during hydrotesting when cap left off riser. Digging test holes to determine size of spill.
9/18/91	91730226101	ARCO Alaska, Inc.	y	DS 11, Contained on pad	Produced water	100	Vac truck used. material injected pad 3.	Subsurface Injection	Leak in injection line.
3/31/96	96399909103	BPXA	y	West Prudhoe Bay, VMS PAD,	Calcium Chloride (Solid)	100	Took Report, Case Closed 01-00-00		Other
6/17/96	96399916901	ARCO	y	Seawater Injection Plant (SIP),	Other	100	Phone Follow-up, Case Closed 01-00-00		Leak
6/17/96	96399916905	ARCO	y	Seawater Injection Plant (SIP),	Other	100	Took Report, Case Closed 07-11-96		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/16/96	96399919801	VECO	y	DS 11-24,	Other	100	Took Report, Case Closed 01-00-00		Other
9/9/96	96399925302	BPXA	y	GC 1 SKID 4,	Crude	100	Took Report, Case Closed 09-21-96		Overfill
12/31/96	96399936601	BPXA	ym	West Prudhoe Bay, WELL 2-22 PIPERACK,	Produced Water	100	Took Report, Case Closed 01-00-00		Leak
7/3/97	97399918403	BPXA	y	West North Slope, BP K PAD.,	Other	100	Took Report, Case Closed 07-31-97		Unknown
10/6/98	98399927901	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, ARCO, DRILL SITE 4, WELL 18,	Crude	100	Took Report, Case Closed 10-06-98		Human Error
3/10/99	99399906902	BPXA	y	BP, Well Pad Y,	Other	100	Took Report, Case Closed 03-20-99		Valve Failure
4/9/99	99399909901	ARCO ALASKA	ym	East Prudhoe Bay, CGF, MODULE 4938D,	Hydraulic Oil	100	Took Report, Case Closed 04-11-99		Valve Failure
1/18/00	00399901801	ARCO ALASKA, INC.	ym	West Prudhoe Bay, SPINE ROAD,	Propylene Glycol	100	Phone Follow-up, Case Closed 01-19-00		Rollover/Capsize
4/22/00	00399911301	BPXA	y	West Prudhoe Bay, Well Pad J,	Corrosion Inhibitor	100	Took Report, Case Closed 11-08-00		Equipment Failure
6/8/00	00399916001	BPXA	y	West Prudhoe Bay, GC-1PAD,	Crude	100	Took Report, Case Closed 06-10-00		Seal Failure
12/12/00	00399934702	BPXA	y	West Prudhoe Bay, F PAD,	Methyl Alcohol (Methanol)	100	Phone Follow-up, Final Report 03-27-02		Equipment Failure
1/12/01	01399901201	BPXA	y	BOC Bulk Fuel Facility,	Diesel	100	Phone Follow-up, Case Closed 12-16-02		Valve Failure
2/3/01	01399903401	BPXA	y	Lisburne Production Center (LPC),	Produced Water	100	Took Report, Final Report 08-03-01		Leak
2/4/01	01399903501	BPXA	y	East Prudhoe Bay, LISBURNE PRODUCTION CENTER,	Produced Water	100	Took Report, Complaint/Report Received 02-04-01		Containment Overflow
3/12/01	01399907101	WESTERN GECO	ym	West North Slope, NPRA, N 70 DEGREES 13.415", W 15,	Diesel	100	Took Report, Case Closed 03-12-01		Collision/Allision
12/20/01	01399935401	BPXA	y	East Prudhoe Bay, FS 3,	Produced Water	100	Phone Follow-up, Final Report 12-26-01		Human Error
2/1/02	02399903201	BPXA	y	CCP,	Engine Lube Oil	100	Phone Follow-up, Final Report 02-03-02		Seal Failure
2/14/02	02399904501	BPXA	y	East Prudhoe Bay, CHEM TANK DOCK,	Corrosion Inhibitor	100	Phone Follow-up, Final Report 02-17-02		Equipment Failure
5/6/02	02399912601	BPXA	y	East Prudhoe Bay SURFCOAT,	Crude	100	Phone Follow-up, Case Closed 05-09-02		Gauge/Site Glass Failure
9/8/02	02399925101	BPXA	y	U-9 Fabrication Shop,	Diesel	100	Field Visit/s, Final Report 12-20-02		Gauge/Site Glass Failure
4/3/03	03399909301	BPXA	y	Drill Site 13,	Seawater	100	Phone Follow-up, Case Closed 04-11-03		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/24/03	03399911401	BPXA	y	Well Pad F,	Hydraulic Oil	100	Took Report, Case Closed 04-28-03		Line Failure
7/6/03	03399918701	BPXA	ym	N2 Plant,	Propylene Glycol	100	Took Report, Case Closed 07-23-03		Valve Failure
4/10/04	04399910102	BPXA	y	Drill Site 11,	Methyl Alcohol (Methanol)	100	Field Visit/s, Case Closed 07-26-04		Valve Failure
5/2/04	04399912303	BPXA	y	Well Pad Z,	Seawater	100	Phone Follow-up, Case Closed 05-13-04		Equipment Failure
7/30/04	04399921201	BPXA	y	Flow Station 3 (FS-3),	Engine Lube Oil	100	Took Report, Case Closed 08-18-04		Unknown
6/3/05	05399915402	BPXA	y	Drill Site 4, DS-4, Well 40 Well Casing Leak	Crude	100	Field Visit/s, Final closure pending 07-24-07		Line Failure
9/27/05	05399927002	BPXA	y	Well Pad Z,	Drilling Muds	100	Took Report, Case Closed 10-16-05		Leak
2/4/06	06399903501	BPXA	y	Drill Site 11,	Seawater	100	Phone Follow-up, Case Closed 02-07-06		Equipment Failure
3/30/06	06399908903	BPXA	y	Drill Site 4,	Produced Water	100	Phone Follow-up, Case Closed 04-07-06		External Factors
5/10/06	06399913001	BPXA	y	Flow Station 3 (FS-3), EOA Flow Station 3 Produced Water	Produced Water	100	Took Report, Case Closed 05-17-06		Seal Failure
7/28/06	06399920901	BPXA	y	Main Construction Camp (MCC),	Glycol, Other	100	Took Report, Case Closed 08-07-06		Seal Failure
9/3/06	06399924602	BPXA	y	Prudhoe Bay Operations Center (PBOC),	Glycol, Other	100	Took Report, Case Closed 09-25-06		Seal Failure
11/21/06	06399932502	BPXA	y	Drill Site 12,	Hydraulic Oil	100	Phone Follow-up, Case Closed 11-28-06		Line Failure
08/03/07	07399921502	Schlumberger Oilfield Services	ym	Spine Road,	Propylene Glycol	100	Phone Follow-up, Case Closed 08-09-07		Line Failure
08/03/07	07399921501	BPXA	y	Gathering Center 2 (GC-2),	Methyl Alcohol (Methanol)	100	Took Report, Case Closed 08-09-07		Seal Failure
09/10/07	07399925301	BPXA	y	Flow Station 3 (FS-3), FS-3 Lube Oil Spill	Engine Lube Oil	100	Took Report, Complaint/Report Received 09-11-07		Equipment Failure
6/11/99	99399916201	ARCO ALASKA	ym	West North Slope, KUPARUK 2D PIG LAUNCHER,	Seawater	98	Took Report, Case Closed 06-11-99		Seal Failure
5/15/05	05399913501	ASRC Energy Ser (formerly APC)	y	Well Pad Z,	Other	96	Took Report, Case Closed 05-17-05		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/21/06	06399932501	BPXA	y	POINT MCINTYRE, PM 2, Pt Mac 2 Methanol spill	Methyl Alcohol (Methanol)	95	Phone Follow-up, Final Report 02-27-07		Valve Failure
4/10/85	85360110002	Sohio	y	E pad 3, -0-	Crude	90	Con. snow scraped up		-0-
3/11/03	03399907001	PEAK OILFIELD SER/BP EXPLORATION	y	West Prudhoe Bay SPINE RD, Peak Vac Truck Rollover	Diesel	90	Phone Follow-up, Case Closed 04-22-03		Rollover/Capsize
5/20/06	06399914001	ASCI	y	c Pad,	Other	90	Phone Follow-up, Case Closed 06-06-06		Human Error
7/16/06	06399919701	BPXA	y	West Prudhoe Bay SPINE RD,	Diesel	90	Phone Follow-up, Case Closed 07-17-06		Equipment Failure
6/10/81	81360116101	Sohio	y	Exploratory site Hurl, Prudhoe, Not given.	Crude	89	Not given.	Not Given	Entered 10-27-89 from old records. Follow up 6-22 and 7-7-81. Crude 1 to 2 bbls, diesel 5 to 5 gal.
10/7/86	86360128001	Standard Alaska Production Com	y	F-Pad North end of West pit, -0-	Crude 5/pit water 84	89	Soaked with sorbents/pumped fluid	Incinerated	Interim Report recd 10/19/86-spill to be monitored till spring
2/18/97	97399904901	BPXA	y	West Prudhoe Bay, Y PAD WELL 20, Y-Pad Diesel Release	Diesel	89	Phone Follow-up, Case Closed 06-17-97		Line Failure
2/18/04	04399904901	BPXA	y	W PAD,	Methyl Alcohol (Methanol)	86	Phone Follow-up, Case Closed 02-19-04		Valve Failure
7/24/81	81360120501	ARCO Alaska, Inc.	y	ARCO fuel dock, Ground	Diesel	85	Absorbent pads used, gravel removed with bucket loader.	Not Given	Entered 2-6-90 from old records.
7/15/85	85360119603	ARCO Alaska, Inc.	y	DS 9, -0-	Crude	85	Sorbents, contaminated gravel removed		-0-
7/8/89	89360118902	BPXA	y	GC 1 Water Treatment, contained on pad	Crude	85	Gravel excavated and replaced. taken to nsb ow pit if open. if not, to sante fe pad.	Approved Landfill	Vac truck overfilled.
1/27/90	90360902701	BPXA	y	W Pad Well 29, Contained in snow and gravel on pad	Methanol	85	Loader removed snow, gravel, taken to t pad for recovery.	Recycled	While bleeding back frozen line to tank, tank overflowed, filled catch pan and spilled 1 bbl onto ground under tractor. Seal packing on pump then failed and another 1/2 bbl spilled.
3/6/90	90360206501	BPXA	y	Pad B Well B8, West Operating Area, Contained on pad	Produced water	85	Snow and ice removed, taken to t pad ow pit.	Approved Landfill	-0-
4/5/90	90360109501	BPXA	y	F Pad Well 12, Contained in snow on pad	Diesel	85	Snow removed by loader/grader, taken to t pad sw pit for recovery.	Recycled	Hot Oil Services truck overfilled.
2/19/92	92730205001	BPXA	y	M Pad Wellhouse 8, Contained on pad	Seawater	85	Loader removed contaminant, put in slop tank for reuse.	Recycled	Inadvertently blew air into full vac truck causing overflow.
7/7/95	95399918802	BPXA	y	West Prudhoe Bay, H 6,	Other	85	Took Report, Case Closed 01-00-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/1/97	97399930501	B.P.	ym	West North Slope, B.P. GC-3 LPS SECTION.,	Ethylene Glycol (Antifreeze)	85	Took Report, Case Closed 05-20-98		Leak
9/26/00	00399927001	BPXA	y	West Prudhoe Bay, GC-2 TANK 8512,	Produced Water	85	Took Report, Case Closed 09-26-00		Valve Failure
12/1/00	00399933601	BPXA	ym	East Prudhoe Bay, FLOW STATION 1 MODULE 4921,	Crude	85	Took Report, Case Closed 12-01-00		Seal Failure
12/2/00	00399933701	BPXA	ym	East Prudhoe Bay, G&I FACILITY, RE-JET UNIT,	Drilling Muds	85	Took Report, Case Closed 12-02-00		External Factors
10/18/06	06399929101	BPXA	y	Gathering Center 1 (GC-1),	Glycol, Other	85	Took Report, Case Closed 10-26-06		Valve Failure
1/21/81	81360102102	Sohio	y	GC 2, Skid 19 Prudhoe, Not Given.	Engine lube oil	84	Not given.	Not Given	Entered 9-25-89 from old records.
4/25/81	81360111501	ARCO Alaska, Inc.	y	COTU Storage facility--surfcote yard, Inside diked area	Diesel	84	Vac truck, loader, pads used. dug sump. 60 gal recovered from sump, 10 with pads, remainder excavated. pads/incin., gravel/landfill, liquid/injected.	Multiple	Entered 10-25-89 from old records. Follow up date 5-18-81. Original qty. unknown, estimated 2 gal. Discoverd while cleaning snow in area. Small pool of diesel on top of snow.
5/8/81	81360112801	Sohio	y	MPC 7-11-12, Prudhoe, Not given.	Oil phase mud	84	Not given.	Not Given	Entered 10-26-89 from old records. Follow up date 9-16-81.
12/19/81	81360135301	Sohio	y	GC 2, Skid 4, Not given	Crude	84	Not given	Not Given	Entered 2-21-90 from old records.
1/20/82	82360102002	Sohio	y	GC 2 Skid 20, Not given.	Crude	84	Not given.	Not Given	Entered 3-15-90 from old records. Follow up 2-01 and 2-04-82. Mixture crude and condensate TEG.
6/3/82	82360115401	ARCO Alaska, Inc.	y	DS 17, Prudhoe Bay, On well head 17-4 & containment pits behind well.	Diesel	84	Fluids into oily waste disposal well. pads to nsb incinerator.	Multiple	Also spilled hydraulic oil-ratios not given. Control line on hydraulic system opened to barrel and barrel overflowed. Entered from old records 4-28-90.
3/11/83	83360907001	SOHIO	m	Prudhoe Bay, Unknown	Antifreeze	84	Gravel scraped up.	Unknown	Cause: Loosened fitting.Type: Monoethelene glycol. Entered from old records 6/20/90.
6/9/83	83360116006	ARCO Alaska, Inc.	y	W. Bay State 1, Prudhoe, Oil on tundra.	Crude	84	Vacuum truck and boom.	Subsurface Injection	Cause: Due to weather conditions. Entered from old records 6/26/90.
7/8/83	83360118902	ARCO Alaska, Inc.	y	DS 16, Prudhoe, Only gravel effected.	Diesel	84	Removed contaminated gravel.	Not Given	Entered from old records 6/26/90.
5/11/85	85360113101	ARCO Alaska, Inc.	y	GC-3 skid 484, -0-	Glycol	84	Snow scraped up w/shovels and bucket loader/vac tr		-0-
11/3/85	85360130701	ARCO Alaska, Inc.	y	DS 15 Prudhoe Bay, -0-	Crude	84	Picked up contaminated snow and crude	Subsurface Injection	-0-
2/22/86	86360105301	Sohio Alaska Petroleum Company	y	Y-13, -0-	Drilling muds	84	Scraped up frozen material		-0-
3/12/86	86360107101	ARCO Alaska, Inc.	y	ARCO COTU, -0-	Crude	84	Wait till hardens, then scrape up	Interim Containment	-0-

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/13/86	86360107201	ARCO Alaska, Inc.	y	Crude Oil Topping Plant, -0-	Crude	84	Scraped up contaminated snow	Interim Containment	-0-
4/2/86	86360109201	ARCO Alaska, Inc.	m	Unknown, -0-	Diesel	84	Picked up	Interim Containment	On recorder.
6/4/86	86360115502	Sohio Alaska Petroleum company	y	U-13, -0-	Crude	84	Soaked up w/sorbents-contaminated gravel scraped	Incineration/approved Landfill	-0-
6/4/86	86360115503	Sohio Alaska Petroleum Company	y	U-13, -0-	Crude	84	Soaked up w/sorbents-contaminated gravel scraped u	Incineration/approved Landfill	-0-
6/7/86	86360115801	Sohio Alaska Petroleum Company	y	Cold Storage Pad, -0-	Drilling oil	84	Soaked up w/sorbents-contaminated gravel scraped	Incineration/approved Landfill	-0-
6/20/86	86360117101	Sohio Alaska Petroleum Company	y	Westside Waterflood, -0-	Turbine fuel	84	Liquid vacuumed/skimmed-contaminated gravel scrape	Multiple/see Comments	Liquid put in GC-3 Ullage Tank-contaminated gravel to B-Pad Reserve Pit. Product spilled turbine fuel.
6/29/86	86360118002	Sohio Alaska Petroleum Company	y	B-6, -0-	Diesel	84	Contaminated gravel scraped up	Interim Containment	-0-
8/25/86	86360123703	Standard Alaska Production Com	y	GC-II, Skid 481, -0-	Diesel	84	Vacuumed liquid/contaminated gravel scraped up	Multiple/see Comments	Liquid recycled-gravel taken to active F-pad for recovery
12/19/86	86360135301	ARCO Alaska, Inc.	y	FS 1 Prudhoe, -0-	Crude	84	Contaminants were scraped up	Interim Containment	-0-
1/10/87	87360101001	Standard Alaska Production Com	y	GC-3, -0-	Crude	84	Scraped up contaminants	Interim Containment	-0-
2/28/87	87360105901	Standard Alaska Production Com	y	B-7, -0-	Diesel/hydaulic oil	84	Contaminants scraped up	Interim Containment	Fitting flange failed.
5/11/87	87360113101	Standard Alaska Production Com	y	Well N-7, -0-	Diesel and hydraulic fluid	84	Contaminants scraped up	Interim Containment	-0-
6/30/87	87360118101	ARCO Alaska, Inc.	y	DS 3, Well 9, Some tundra effected by mistified crude	Crude	84	Soaked up w/sorbents-contaminants scraped up	Incineration/approved Landfill	-0-
8/21/87	87360923301	Standard Alaska Production Com	y	GC-II, skid 408, -0-	Glycol	84	Liquid vacuumed/contaminants scraped up	Liquid Recycled/contaminants Stored	-0-

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/1/87	87360127401	ARCO Alaska, Inc.	y	Pad 3 Injection Facility, -0-	Oily water	84	Fluids vacuumed up/soaked up with sorbents	Fluids Injected/sorbents Incinerate	-0-
10/9/87	87360128201	ARCO Alaska, Inc.	y	Pad 3, Prudhoe, Approximately 20'X20' of pad	Crude	84	Soaked up w/sorbents-contaminants scraped up	Sorbents Incin-conts To Landfill	-0-
10/21/87	87360929401	Standard Alaska Production Com	y	F-?, -0-	Hcl 15%/water 68%/cor inh	84	Neutralized w/soda-contaminated gravel scraped up	Approved Landfill	-0-
11/11/87	87360131501	ARCO Alaska, Inc.	y	DS 9, -0-	Seawater	84	Contaminated snow and seawater scooped up	Interim Containment	-0-
1/19/88	88360101901	ARCO Alaska, Inc.	y	FS 1, Area around produced water disposal well	Produced water	84	Contaminants scraped up	Interim Containment	Packoff failure.
3/19/88	88360107901	ARCO Alaska, Inc.	y	DS 17, Well 4, -0-	Diesel	84	Liquid vacuumed up - contaminants scraped up	Liquid Injected-contams To Nsb Land	-0-
5/21/88	88360114202	ARCO Alaska, Inc.	y	DS 9, -0-	Diesel	84	Soaked up with sorbents/contaminants scraped up	Sorbs Incin/contams To Owp	Trailer slid off pad.
7/3/88	88360118502	ARCO Alaska, Inc.	y	DS 5, DS 5	Unknown	84	Materials & contaminated gravel picked up	Approved Landfill	-0-
7/15/88	88360119901	ARCO Alaska, Inc.	y	DS 16, Well 17, contained on pad	Water & hpg gel	84	Vacuum truck used to suck up material		while filling tank material discharged through an overflow vent
8/20/88	88360123302	ARCO Alaska, Inc.	y	DS 5, Well 1, contained on pad	Crude oil/diesel	84	Absorbents/super-sucker truck to suck up gravel	Incineration/approved Landfill	valve not closed tightly on a tank
10/13/88	88360128701	ARCO Alaska, Inc.	y	DS 7, Well 3, contained on pad	98% diesel, 2% gel	84	Super-sucker vac truck, rakes for gravel		Dike overflowed.
11/4/88	88360130902	ARCO Alaska, Inc.	y	DS 1, Well 10, contained on pad	Crude	84	Loader picked up contaminated snow	Approved Landfill	valve handle pushed open by windswept door on tanker truck
12/4/88	88360133903	ARCO Alaska, Inc.	y	Hot Water Plant, contained on pad	Crude	84	Loader removed material and snow	Approved Landfill	while adding water to material, tank was overfilled
12/20/88	88360135501	ARCO Alaska, Inc.	y	DS 1, Well 19, contained on pad	1% surfactant, 99% seawater	84	Absorbents for material, loader for snow	Incineration/approved Landfill	during squeeze, while mixing materials, drum overfilled
1/7/89	89360100704	ARCO Alaska, Inc.	y	DS 12, Well 30, contained in 20' x 20' area/ SE side of pad	Drilling muds	84	Loader used to remove material and con. snow	Approved Landfill	discovered spill while moving rig, material leaked into cellar on pad

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/10/89	89360104106	BPXA	y	Well C 17, contained on pad	Diesel	84	Absorbents on diesel, loader on contaminated snow	Multiple/see Disposal	valve broke on squeeze unit
3/8/89	89360106703	ARCO Alaska, Inc.	y	DS 3, Well 10 lateral valve, contained on pad	Seawater	84	Scraped up ice with loader, taken to pad 3 ow lpit.	Approved Landfill	Injection line valve grease fitting developed leak.
3/10/89	89360106903	ARCO Alaska, Inc.	y	FS 2 slop oil tank, contained on pad	Crude	84	Vac truck used on fluid, loader scraped up snow. taken to pad 3.	Approved Landfill	-0-
3/12/89	89360107101	ARCO Alaska, Inc.	y	FS 2 slop oil tank, contained on pad	Crude	84	Vac truck used on fluid, snow scraped by loader. taken to pad 3.	Approved Landfill	Transfer hose not completely drained. When disconnected, it spilled contents. Too much pressure during backflushing.
3/14/89	89360107307	ARCO Alaska, Inc.	y	FS 2, Module 4940, Contained on pad.	Seawater	84	Picked up with loader, taken to pad 14 for meltdown, then to pad 3 for disposal.	Approved Landfill	Blocked valve on vent line leaked causing line to fill and spill onto hardpacked snow.
3/20/89	89360107902	ARCO Alaska, Inc.	y	LPC, Lisburne Production Center 6 inch FFG Line, contained on snow on pad	Methanol	84	Loader used to scrape up material and snow. taken to pad 3 for disposal.	Approved Landfill	Mixture of 60% methanol, 40% water. Tanker overfilled by slug of fluid from a pigging operation.
3/29/89	89360108801	ARCO Alaska, Inc.	y	DS 12, Well 32, None. Contained on pad. Approx 30 x 30 ft area.	Other	84	Loader used to remove contaminated snow. taken to nsb solid oily waste pit.	Approved Landfill	Mixture HEC Polymer 10%, diesel 10%, seawater 80% Well cellar overflow during routine drilling operation.
5/21/89	89360114106	ARCO Alaska, Inc.	y	DS 15, Well 16, contained on snow packed gravel. 15' x 15'	Seawater	84	Snow removed to tank, melted, taken to pad 3 for disposal	Approved Landfill	-0-
5/27/89	89360114701	ARCO Alaska, Inc.	y	DS 18, Well 21, contained on pad in cellar	Drilling oil	84	Absorbents and loader used to pick up, sorbents incinerated, material taken to pad 3.	Multiple	Oil base (diesel drilling fluid) discovered when rig was moved off well pad.
6/11/89	89360116201	ARCO Alaska, Inc.	y	DS 7, Well 25, contained on pad	Methanol	84	Absorbents, vac truck used. sorbents to nsb dumpster, fluids to pad 3, gravel stored at pad 3.	Multiple	Mixture 1% crude, 10% methanol, 89% water released when drip pan developed leak.
6/19/89	89360117103	BPXA	y	West side water flood, skid 2, Prudhoe west operations area, gravel pad and adjacent water impoundment area	Turbine fuel	84	Absorbent boom used. no details at present.	Not Given	Turbine fuel vented when pump unit started and oil line to seal failed.
6/19/89	89360117104	BPXA	y	Westside waterflood, Skid 72, 600 x 40 ft area of impoundment with sheen of oil	Turbine fuel	84	Boom placed at ends of impoundment, sorbents used on pooled oil, loader on gravel. vac truck on sheen. sorbents to incin, gravel to a3w3.	Multiple	Turbine oil released when oil line to pump seal failed. Seal oil vented, spraying pond with about 20 gal. About 25-35 gal sprayed on pad. Update 8-1-89 monitoring reveals no evidence of further contamination to pad or impoundment area.
6/21/89	89360117205	ARCO Alaska, Inc.	y	DS 1, Well 25, contained on pad	Other	84	Super sucker for fluids, loader for gravel. material to pad 3 sowp, gravel to nsb sowp.	Multiple	Arctic Pack released due to mechanical failure of casing head.
8/26/89	89360123802	BPXA	y	C7, contained on pad	Crude	84	Sorbents laid down, contaminated gravel removed. sorbents to nsb incinerator, gravel to nsb owp.	Multiple	Snubbing unit pulling line while well under pressure.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/29/89	89360124101	ARCO Alaska, Inc.	y	Hot Water Plant, Contained on pad	Gelled water	84	Super sucker used, absorbents and loader for gravel. absorbents to nsb incinerator, gravel to pad 3 sowp	Multiple	Mixture 99% fresh water, 1% XCD polymer gel spilled when tanker overfilled and material sprayed out vent.
10/11/89	89360128401	ARCO Alaska, Inc.	y	DS 6, Well 6, Contained on gravel	Oil phase mud	84	Loaders removed gravel and mud. taken to nsb sowp.	Approved Landfill	During well workover, mud ran down through mats and overflowed cellar. Spill discovered when rig moved. Original report of 126 gal. changed to 84 on final report.
10/17/89	89360129001	ARCO Alaska, Inc.	y	DS 6, Well 7, Contained on pad	Seawater	84	Super sucker used on water and gravel, taken to nsb landfill.	Approved Landfill	After starting up pump, discovered valve in open position.
11/3/89	89360930704	Dowell Schlumberger	y	DS 14 Well 39, Ran onto ice covered tundra	Methanol	84	Super sucker used, arco will dispose of at pad 3 or owp.	Approved Landfill	Driver ran over tank. Mixture 20# gel water, 25% methanol.
11/6/89	89360131002	ARCO Alaska, Inc.	y	DS 14 Well 1, Contained on pad.	Crude	84	Loader and super sucker used to remove ice, snow, gravel. taken to nsb sowp.	Approved Landfill	Material sprayed out a tank relief vent caused by a high level and return rate from well.
11/13/89	89360131701	Dowell Schlumberger	y	DS 14 Well 39, drill site	Gelled water	84	Gelled fluids picked up by vac truck, taken to nsb owp.	Approved Landfill	Product gelled water. Overflowed frac tank while gelling water.
2/19/90	90360105002	Halliburton Services	y	L4 Well 31, Contained on snow on pad	Diesel	84	Snow removed by pick and shovel. being run through waste recovery system in disposal waste tanks.	Recycled	2 inch valve left open on recirculating pump. Cleanup okayed by ARCO rep.
3/3/90	90360206201	ARCO Alaska, Inc.	y	DS 3 Well 10, Contained on pad	Seawater	84	Vac truck used, loader. put back into empty tank and injected at pad 3.	Subsurface Injection	Tank overflowed while taking returns from well. Operator failed to switch flow to empty tank.
3/7/90	90360206602	BPXA	y	B Pad Well 8, Not given	Produced water	84	Ice and snow scraped up, takne to t pad.	Approved Landfill	Hose broke between pumps during transfer.
3/9/90	90360506801	Doyon Drilling Rig 14	m	Doyon Drilling Rig 14, Ice pad over tundra. None reached tundra	Drilling muds	84	Material scraped up with shovels, bagged for nsb incinerator, most recycled through cuttings box.	Multiple	Valve left open on suction pot on mud pump. Fresh water base drilling mud: water, gel, barite, ez mud.
3/22/90	90360208101	ARCO Alaska, Inc.	y	DS 17 Well 3, Contained on pad	Seawater	84	Frozen seawater removed, injected at pad 3.	Subsurface Injection	Nabors 2ES Rig forgot to put bucket under cuttings trough.
3/26/90	90360108501	Conoco	y	G Pad Well 4, 40 sq ft on pad	Diesel	84	Absorbents used; snow, gravel removed. sorbents bagged. everything taken to temp disposal in lined berm.	Interim Containment	During workover of rig, diesel overflowed into cellar, then onto pad.
3/26/90	90360108502	Conoco	y	G Pad, 150 sq ft on pad	Diesel	84	Barrel put under leak to catch. snow shoveled up by loader, put into temp disposal in lined berm.	Interim Containment	While pumping out cellar returns, leak developed by plate. Quantity went under rig, will be cleaned out when rig moved 3-27 or 3-28. Delay in reporting to ascertain extent of spill.
3/31/90	90360909001	ARCO Alaska, Inc.	y	J Pad, On pad	Methanol	84	Super sucker picked up material and snow, put into storage tank and reused.	Recycled	60/40 methanol/water. Tanker sitting at angle. Operator watching one site glass and not other.
4/4/90	90360209401	ARCO Alaska, Inc.	y	Pt McIntyre Well #7, Contained on pad	Other	84	Frozen water picked up, taken to term well a reserve pit.	Interim Containment	Mixture 98% fresh water, 2% drilling mud overflowed sump when pump plugged up.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/10/90	90360210001	ARCO Alaska, Inc.	y	DS 13 Manifold Bldg., Contained on pad	Produced water	84	Super sucker used, loader removed snow/gravel. liquids injected pad 3, solids pad 3 sowp.	Multiple	Overfilling of return tank.
4/12/90	90360210201	ARCO Alaska, Inc.	y	DS 3 Well 13, Snow	Seawater	84	Removed by loader, melted, injected pad 3.	Subsurface Injection	While drilling, shaker flooded, overfilled cuttings box.
5/19/90	90360113902	ARCO Alaska, Inc.	y	COTU, Gravel pad	Crude	84	Absorbents used, gravel removed. gravel taken to pad 3, pads to nsb incinerator, fluid recycled at fs 1.	Multiple	Leak in residual line.
5/20/90	90360214001	ARCO Alaska, Inc.	y	WGI, Well 7 (Nabors 2ES workover rig), Contained on pad	Seawater	84	Gravel removed, placed in cuttings box onsite. will be taken to pad 3 sowp.	Approved Landfill	Product NaCl brine.
6/16/90	90360216701	ARCO Alaska, Inc.	y	SIP Well 1-2, Contained on pad 10 x 20 ft	Produced water	84	Absorbents used, taken to nsb incinerator.	Incinerated	Bleed valve left open.
7/31/90	90360221201	Peak Oilfield Services	y	SIP, ARCO, Contained on pad	Seawater	84	Vacuumed up, flushed with fresh water, vacuumed up. injected at pad 3.	Subsurface Injection	Tank improperly vented by driver.
8/31/90	90360924301	Alaska Petroleum Contractors	y	DS 16 well 6, 4 x 8 ft gravel	Other	84	Vac truck removed liquids, shovels for gravel. pad 3 sowp for gravel, liquid pad 3 injections.	Multiple	Foaming effect of mixture caused overflow. Mixture 1.75 # polymer per 1 bbl water.
10/28/90	90360230101	ARCO Alaska, Inc.	y	Pad 3, Contained on ice/snow on pad	Gelled water	84	Super sucker removed material, some gravel. taken to pad 3 sw pit.	Approved Landfill	Sight glass broke spilling 90% gelwater, 6% crude, 3% diesel, 1% methanol.
11/29/90	90360133303	ARCO Alaska, Inc.	y	L5 Pad, Snow on pad	Crude	84	Absorbents used, loader removed gravel. pads to burnabale dumpster, snow/gravel to pad 3.	Incineration/approved Landfill	Freeze protect: 50-50 diesel/crude spilled when line split while injecting.
12/3/90	90360233701	ARCO Alaska, Inc.	y	DS 15 Well 16, Snow/ice on pad	Gelled water	84	Snow/ice removed, melted, reused.	Recycled	1/2 lb. XCD polymer to 1 BBL water.
2/4/91	91360103501	BPXA	y	WSW Dirty Water Tank, Contained on pad	Crude	84	Material removed,d ftaken to t pad waste pit for recovery and disposal.	Multiple	Strainer block valve.
2/16/91	91360204704	Alaska Petroleum Contractors	y	DS 1 Well 19, 10 x 20 snow/ice on pad	Other	84	Loader removed snow/ice, put in open top tank. liquids reused as cut water, eventually injected pad 3.	Subsurface Injection	99% fresh water, 1% crude.
4/17/91	91360910701	ARCO Alaska, Inc.	y	Central CP, Snow on pad	Antifreeze	84	Absorbents used, shovels. taken to pad 3 sw pit.	Approved Landfill	Mixture firewater/glycol/lube oil spilled from turbine compressor.
6/2/91	91360915301	ARCO Alaska, Inc.	y	DS 1 Well 9, Gravel pad	Other	84	Cleanup not given. disposal "properly disposed of."	Not Given	Biovent gel.
9/12/91	91730225501	BPXA	y	D Pad well 9, Contained on pad	Produced water	84	Absorbents used, taken to nsb incinerator.	Incinerated	Hose connection vibrated loose spilling water and trace of hydrocarbons. Containment dikes in place, but spill exceeded capacity.
9/28/91	91730127102	BPXA	y	F Pad Well 48, contained on pad	Crude	84	Absorbents used. crude and gravel removed by loader, shovels. sorbents to nsb incin., remainder to arco pad 3.	Incineration/approved Landfill	-0-
9/28/91	91730927102	Dowell Schlumberger	y	DS L4 Well 36, 18 and 24 sq ft area	Acid	84	Absorbents, loader removed gravel and soda ash. taken to pad 3.	Approved Landfill	15% HCL neutralized with soda ash.
11/9/91	91730231301	BPXA	y	H Pad Well 7, working on H-21, contained on pad	Seawater	84	Contaminants to be scraped up with loader, shovels when equip. moved. will be taken to pad 3 lined pit.	Approved Landfill	Loose cap bolts on filter pad.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/15/91	91730231901	Peak Oilfield Services	y	S Pad Well 5, Contained on pad	Produced water	84	Water scraped up with loader, taken to arco pad 3.	Approved Landfill	Faulty gauge allowed overfilling of vac truck.
11/25/91	91730132901	Alaska Petroleum Contractors	y	DS 13-4, 4 x 40 ice/snow on pad	Crude	84	Super sucker used. all cleaned up by 1800 hrs. taken to pad 3.	Approved Landfill	-0-
3/16/92	92730907601	Alaska Petroleum Contractors	y	ARCO Hot water plant, 4 x 4 ice patch	Other	84	Scraped up, recycled.	Recycled	2 lb FCD gel water spilled due to faulty sight glass on tanker.
8/17/95	95399922902	BPXA	y	West Prudhoe Bay, GC 3,	Produced Water	84	Took Report, Case Closed 01-00-00		Seal Failure
9/24/95	95399926704	PEAK OILFIELD SERVICES	y	East Prudhoe Bay, GC 1,	Other	84	Took Report, Case Closed 01-00-00		Overfill
5/24/96	96399914502	BPXA	y	West Prudhoe Bay, CC2A BALL MILL,	Produced Water	84	Took Report, Case Closed 01-00-00		Other
6/22/96	96399917401	NORDIC RIG	ym	East Prudhoe Bay, NORDIC RIG #2/1F-03A,	Drilling Muds	84	Took Report, Case Closed 01-00-00		Overfill
9/22/96	96399926602	BPXA	y	Well Pad B,	Methyl Alcohol (Methanol)	84	Took Report, Case Closed 01-00-00		Line Failure
11/10/96	96399931501	BPXA	y	Well Pad D,	Methyl Alcohol (Methanol)	84	Phone Follow-up, Case Closed 11-17-97		Equipment Failure
1/23/97	97399902302	BPXA	y	West Prudhoe Bay, GC 3 SKID 4,	Crude	84	Took Report, Case Closed 01-00-00		Corrosion
2/28/97	97399905901	BAROID DRILLING	ym	BAROID MUD PLANT, SPINE RD.,	Other	84	Took Report, Other 12-03-99		Seal Failure
2/28/97	97399905902	BPXA	y	West Prudhoe Bay, M PAD,	Produced Water	84	Took Report, Case Closed 01-00-00		Seal Failure
3/11/97	97399907002	ARCO	y	Flow Station 1 (FS-1),	Produced Water	84	Field Visit/s, Case Closed 01-00-00		Other
7/3/97	97399918402	BPXA	y	West North Slope, BP Well Pad W.,	Other	84	Took Report, Case Closed 08-13-97		Valve Failure
9/20/97	97399926401	ARCO	y	EAST NORTH SLOPE, ARCO EOA.,	Produced Water	84	Took Report, Case Closed 09-25-97		Unknown
10/14/97	97399928701	BPXA	y	West Prudhoe Bay, BP Well Pad G.,	Crude	84	Took Report, Case Closed 11-13-97		Valve Failure
9/14/98	98399925701	ARCO	y	East Prudhoe Bay, ARCO, DS 13, UNDER MANIFOLD BUIL,	Produced Water	84	Phone Follow-up, Case Closed 01-00-00		Corrosion
3/10/99	99399906903	NORDIC	y	BP, Well Pad Y,	Other	84	Took Report, Case Closed 03-20-99		Other
9/26/00	00399927002	BPXA	ym	East Prudhoe Bay, NGAS INJECTION PAD, BLOW DOWN PI,	Diesel	84	Phone Follow-up, Case Closed 01-00-00		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/9/02	02399900901	BPXA	y	Drill Site 18,	Crude	84	Took Report, Final Report 01-10-02		Human Error
5/21/02	02399914101	BPXA	y	East Prudhoe Bay, DS 12,	Produced Water	84	Took Report, Final Report 05-30-02		Corrosion
9/21/02	02399926401	NABORS DRILL/BP EXPLORATION	y	East Dock,	Drilling Muds	84	Phone Follow-up, Case Closed 10-01-02		Containment Overflow
2/1/03	03399903202	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Drill Site 1 (DS-1),	Seawater	84	Phone Follow-up, Final Report 02-05-03		Overfill
7/25/03	03399920602	BPXA	y	Gathering Center 2 (GC-2),	Crude	84	Took Report, Final Report 07-28-03		Crack
9/13/03	03399925601	BPXA	y	DS 3,	Produced Water	84	Phone Follow-up, Case Closed 09-16-03		Gauge/Site Glass Failure
2/22/04	04399905302	BPXA	y	Drill Site 11,	Methyl Alcohol (Methanol)	84	Phone Follow-up, Final Report 03-07-04		External Factors
2/29/04	04399906001	BPXA	ym	East Prudhoe Bay, G&I FACILITY, RE-JET UNIT,	Methyl Alcohol (Methanol)	84	Phone Follow-up, Case Closed 03-06-04		Human Error
2/4/05	05399903501	BPXA	y	Gathering Center 1 (GC-1),	Crude	84	Took Report, Case Closed 02-07-05		Line Failure
2/22/05	05399905301	BPXA	y	Lisburne Production Center (LPC),	Natural Gas Liquids	84	Field Visit/s, Field Visit 03-02-05		Crack
3/19/05	05399907802	BPXA	y	Central Gas Facility (CGF),	Natural Gas Liquids	84	Phone Follow-up, Final Report 04-08-05		Crack
11/5/05	05399930901	BPXA	y	Flow Station 2 (FS-2), Flow Station 2 Flare Pit NGL/Crude Spill	Natural Gas Liquids	84	Field Visit/s, Case Closed 07-10-06		Equipment Failure
2/1/06	06399903201	BPXA	y	Drill Site 2, EOA DS-2 Drilling Mud spill	Drilling Muds	84	Field Visit/s, Case Closed 07-10-06		Human Error
2/9/06	06399904001	BPXA	y	West Gas Injection,	Diesel	84	Field Visit/s, Case Closed 02-13-06		Human Error
2/19/06	06399905001	BPXA	y	East Prudhoe Bay, L-PAD, DRILLSITE L2-18, EOA L-Pad, Well L2-18 MEG Spill	Ethylene Glycol (Antifreeze)	84	Field Visit/s, Case Closed 04-05-06		Crack
4/3/06	06399909301	BPXA	y	Well Pad I,	Drilling Muds	84	Took Report, Case Closed 04-10-06		Equipment Failure
4/22/06	06399911201	ASRC Energy Ser (formerly APC)	y	Ball Mill Facility,	Seawater	84	Took Report, Case Closed 04-25-06		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/23/06	06399917401	BPXA	y	Drill Site 2,	Crude	84	Took Report, Case Closed 07-05-06		Other
9/22/06	06399926502	BPXA	y	Well Pad K,	Seawater	84	Took Report, Final Report 10-05-06		Overfill
9/25/06	06399926801	BPXA	y	Drill Site 13,	Produced Water	84	Field Visit/s, Case Closed 04-04-07		Corrosion
10/16/06	06399928901	BPXA	y	Well Pad Z,	Drilling Muds	84	Phone Follow-up, Case Closed 12-18-06		Line Failure
10/26/06	06399929901	BPXA	y	Well Pad S,	Drilling Muds	84	Took Report, Case Closed 10-30-06		Leak
02/15/07	07399904604	BPXA	y	Flow Station 3 (FS-3),	Natural Gas Liquids	84	Phone Follow-up, Case Closed Transferred To CSITES 07-05-07		Corrosion
05/27/07	07399914701	BPXA	y	Well Pad W, 1st Spill at Well Pad W	Other	84	Phone Follow-up, Case Closed 06-04-07		Human Error
05/28/07	07399914801	BPXA	y	Well Pad V,	Crude	84	Phone Follow-up, Case Closed 06-05-07		Seal Failure
7/28/98	98399920903	BPXA	y	West Prudhoe Bay, BP, Well Pad B, WELL B-12,	Seawater	82	Field Visit/s, Case Closed 08-17-98		Overfill
9/29/06	06399927202	BPXA	y	Well Pad B,	Diesel	80.5	Took Report, Final Report 10-03-06		Line Failure
1/13/86	86360101301	Sohio Alaska Petroleum Company	y	C-12, -0-	Diesel	80	Soaked up w/absorbent pads-cont snow scraped up		-0-
2/19/88	88360105001	ARCO Alaska, Inc.	y	DS 13, Well 29, -0-	Crude	80	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-conts. To Pad3	Released from tanker.
5/7/88	88360112801	Standard Alaska Production Com	y	B-9, -0-	Diesel	80	Contaminants scraped up	Approved Landfill	-0-
5/23/88	88360114401	Standard Alaska Production Com	y	Well R-23, -0-	Crude	80	Contaminants scraped up	Approved Landfill	-0-
11/25/88	88360133001	ARCO Alaska, Inc.	y	DS 12, Well 21, contained on pad	Seawater	80	Loader removed snow and material	Approved Landfill	while heating material expanded/discharged out of tank
5/31/90	90360115103	ARCO Alaska, Inc.	y	FS 3 pad, Contained on pad	Engine lube oil	80	69 cu. yds gravel with 2% hydrocarbon removed, taken to pad 3.	Approved Landfill	Vehicle leaks over winter cleaned up. Mixture of lube oil and diesel. Have been removing since breakup.
3/22/91	91360908101	BPXA	y	S Pad Well 2, Snow/gravel on pad	Methanol	80	Snow/gravel removed by loader, taken to t pad lined pit.	Interim Containment	50% methanol, 50% water spilled when well return barrel allowed to overflow.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/23/95	95399929601	BPXA	y	West Prudhoe Bay, WELL G-4,	Methyl Alcohol (Methanol)	80	Took Report, Case Closed 01-00-00		Human Error
2/11/96	96399904201	ARCO	y	East Prudhoe Bay, DS 3,	Diesel	80	Took Report, Case Closed 01-00-00		Human Error
3/13/98	98399907201	BPXA	y	EAST NORTH SLOPE, BP GC-1 PAD.,	Other	80	Took Report, Case Closed 01-00-00		Leak
9/16/00	00399926001	BPXA	ym	East Prudhoe Bay, DRILLSITE 7 WELL 8,	Crude	80	Took Report, Case Closed 09-23-00		Corrosion
11/24/01	01399932801	BPXA	y	East Prudhoe Bay, FS 2,	Crude	80	Took Report, Final Report 11-26-01		Human Error
6/24/04	04399917601	BPXA	y	Well Pad C, Well Pad C-17 Leaking Well	Crude	80	Took Report, Final closure pending 07-24-07		Line Failure
12/12/04	04399934701	BPXA	y	Drill Site 4,	Seawater	80	Took Report, Case Closed 02-05-05		Corrosion
1/28/05	05399902804	BPXA	y	Gathering Center 1 (GC-1),	Crude	80	Phone Follow-up, Case Closed 02-01-05		Gauge/Site Glass Failure
4/14/05	05399910404	BPXA	y	Drill Site 9 (DS-9),	Seawater	80	Phone Follow-up, Case Closed 01-06-06		Human Error
9/4/05	05399924704	BPXA	y	Drill Site 3,	Hydraulic Oil	80	Took Report, Case Closed 09-13-05		Line Failure
11/4/05	05399930802	BPXA	y	Grind & Injection (G&I) Facility,	Seawater	80	Phone Follow-up, Case Closed 01-06-06		Human Error
1/7/06	06399900701	BPXA	y	Pad 3,	Seawater	80	Field Visit/s, Case Closed 01-31-06		Seal Failure
01/09/07	07399900903	BPXA	y	Well Pad V,	Drilling Muds	80	Phone Follow-up, Case Closed 01-11-07		External Factors
11/7/80	80360131201	Sohio	m	Sohio CKPT, Prudhoe, Not given	Diesel	75	Not given	Not Given	Entered 9-21-89 from handwritten records.
5/14/82	82360113401	ARCO Alaska, Inc.	y	Crude Oil Topping Unit-Loading Dock, Prudhoe Bay, Remained on gravel area inside pit for tank.	Diesel	75	Shoveled snow/oil mix into 55 gal. drums and taken to landfill.	Approved Landfill	Automatic shutoff valve malfunction caused tank overflow. Entered from old records 4-28-90.
11/15/82	82360131901	ARCO Alaska, Inc.	y	FS 1, Prudhoe Bay, Crude remained on gravel pad.	Crude	75	Absorbent pads used.	Incineration/approved Landfill	Cause: The truck off loading crude caused the bleed valve on discharge line to vibrate open. Entered from old records 4-28-90.
7/8/83	83360118901	SOHIO	y	E Pad, Skid 54, Prudhoe, None, contained on pad.	Crude	75	Motor grader, sorbents.	Not Given	Cause: Pump failed. Entered from old records 6/26/90.
7/28/83	83360120901	Mukluk Oilfield Services	y	ARCO Fuel Depot, None, contained.	Diesel	75	Sorbents	Unknown	Entered from old records 7/5/90. File number is assigned to Alyeska Pipeline Service Co.
10/9/83	83360928203	SOHIO	y	Skid 30, GC3, Prudhoe, None	Emulsion breaker	75	Sorbents, shoveled.	Unknown	Cause: Equipment failure. Type: Emulsion Breaker. Entered from old records 7/10/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/19/83	83360932301	SOHIO	y	GC 2, Skid 6, Prudhoe, Unknown	Antifreeze	75	Vacuum truck.	Not Given	Entered from old records 7/27/90.
12/11/83	83360934501	SOHIO	m	Nitrogen plant, Unknown	Antifreeze	75	"floor-dry"	Not Given	Type: MEG. Entered from old records 7/30/90.
8/22/85	85360123401	Sohio	y	GC-1 skid 25, -0-	Crude	75	Gravel scraped up		-0-
8/22/85	85360123501	SOHIO Alaska Petroleum Company	m	Prudhoe Bay, -0-	Crude	75	Gravel taken to a-pad, se pit		-0-
4/13/86	86360910301	Sohio Alaska Petroleum Company	y	W. S. W. Skid 326, -0-	Methanol	75	Scraped up contaminated snow	Interim Containment	-0-
4/24/87	87360111401	Standard Alaska Production Com	y	PBU - EOA, -0-	Diesel	75	Contaminants scraped up	Interim Containment	-0-
7/19/87	87360120001	ARCO Alaska, Inc.	y	Crude Oil Topping Unit, -0-	Diesel	75	Soaked up with sorbents/contaminants scraped up	Sorbents Incinerated/cnts. To Nsb	-0-
10/11/87	87360128401	ARCO Alaska, Inc.	y	Crude Oil Topping Unit, -0-	Diesel/naptha	75	Vacuumed up liquid	Recycled	Update received 5/25/88
12/13/88	88360134802	ARCO Alaska, Inc.	y	DS 11 Manifold Bldg to FS 2, contained on pad	Raw sewage	75	Snow picked up by loader	Multiple/see Disposal	incomplete closure of valve on tanker truck
7/7/89	89360118805	BPXA	y	N Pad, contained on pad	Crude	75	Absorbents used, gravel removed. sorbents to nsb incinerator, gravel to sante fe pad.	Multiple	Pump high pressure relief valve malfunctioned under high pressure causing release onto pad.
2/11/90	90360104207	BPXA	y	C Pad Well 1, 10 gal. sprayed onto tundra.	Crude	75	Snow removed by loaders. 4 wheelers used to clean spray off tundra. snow taken to t-pad..	Approved Landfill	Report faxed to troopers 2-11, rec'd by DEC 2-15. Final reports plug failed at well, allowing spray to vent.
3/26/90	90360908501	BPXA	y	S Pad Well 15, Contained on pad.	Methanol	75	Loader, grader removed snow/gravel, taken to t pad sw pit for recovery.	Recycled	Flow meter malfunction caused tank to overflow.
7/30/90	90360121101	Conoco	m	Conoco Y pad, 8'x 25' on gravel	Diesel	75	Absorbents used, gravel removed by loader. taken to e pad temp storage berm.	Interim Containment	Site glass broken or disconnected allowing fluid to escape.
8/31/90	90360224302	Alaska Petroleum Contractors	y	DS 16 well 6, 4 x 8 ft gravel	Gelled water	75	Shovels removed gravel, took to pad 3 sowp.	Approved Landfill	Foaming effect of mixture caused gel water to overflow.
10/22/90	90360929501	BPXA	y	Well M-18, Wester Op. Area, Contained on pad	Methanol	75	Gravel being removed, hauled to approved storage.	Interim Containment	Incorrect valve opened.
9/28/91	91730527101	ARCO Alaska, Inc.	y	DS PBOC module, Gravel pad under module	Other	75	Vac truck, shovels, loader used. wastewater treated through pboc ww treatment plant. gravel to pad 3.	Multiple	Raw sewage spilled when check valve failed.
5/1/92	92730112301	ARCO Alaska Inc.	y	FS 3, Gravel under sump	Other	75	Pumped material to another sump. recycled at fs 3.	Recycled	Natural gas liquids leaked from flare sump.
12/7/95	95399934102	ARCO	y	Seawater Injection Plant (SIP),	Other	75	Took Report, Case Closed 01-00-00		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/30/96	96399936501	ARCO	y	EOA, PAD 10,	Methyl Alcohol (Methanol)	75	Took Report, Final Report 05-29-97		Overfill
6/22/99	99399917301	BPXA	y	West Prudhoe Bay, Well Pad W, Well Pad W	Diesel	75	Took Report, Case Closed Transferred To CSITES 03-13-00		Overfill
1/27/00	00399902703	ARCO ALASKA	ym	East Prudhoe Bay, LPC MODULE 4954,	Engine Lube Oil	75	Took Report, Case Closed 01-28-00		Human Error
4/3/01	01399909301	K&W/CARLILE/ BP EXPLORATION	y	East Prudhoe Bay, CENTRAL OPERATION TRANSFER UNIT,	Diesel	75	Took Report, Case Closed 04-06-01		Overfill
11/25/02	02399932901	BPXA	ym	West Prudhoe Bay COTU CRUDE OIL TOPPING UNIT,	Diesel	75	Took Report, Case Closed 12-16-02		Valve Failure
9/20/04	04399926401	BPXA	y	Gathering Center 2 (GC-2),	Engine Lube Oil	75	Took Report, Case Closed 09-24-04		Equipment Failure
9/30/04	04399927401	BPXA	y	Gathering Center 2 (GC-2),	Glycol, Other	75	Phone Follow-up, Case Closed 03-01-07		Unknown
10/21/04	04399929501	BPXA	y	Drill Site 2,	Hydraulic Oil	75	Phone Follow-up, Case Closed 11-01-04		Equipment Failure
12/23/04	04399935801	BPXA	y	Seawater Injection Plant (SIP),	Engine Lube Oil	75	Phone Follow-up, Case Closed 12-27-04		Equipment Failure
2/4/05	05399903505	BPXA	y	Well Pad S,	Hydraulic Oil	75	Phone Follow-up, Final Report 02-07-05		Human Error
9/2/05	05399924501	VECO ALASKA INC.	ym	Santa Fe Pad,	Diesel	75	Phone Follow-up, Case Closed 09-13-05		Equipment Failure
3/31/06	06399909001	BPXA	y	Point McIntyre #1,	Corrosion Inhibitor	75	Took Report, Case Closed 04-07-06		Corrosion
7/2/06	06399918301	BPXA	y	Seawater Treatment Plant (STP),	Other	75	Took Report, Final Report 08-10-06		Line Failure
8/7/06	06399921902	BPXA	ym	WSW/GLT,	Other	75	Took Report, Case Closed 08-11-06		Line Failure
01/05/07	07399900504	BPXA	y	Drill Site 3,	Methyl Alcohol (Methanol)	75	Phone Follow-up, Case Closed 01-30-07		Overfill
10/19/07	07399929201	BPXA	Y	Gathering Center 2 (GC-2), Gathering Center 2 (GC-2)	Produced Water	75	Phone Follow-up, Final Report 11-07-07		Seal Failure
10/30/04	04399930401	BPXA	y	Drill Site 15,	Crude	74	Took Report, Case Closed 11-01-04		Overfill
12/7/81	81360134101	Sohio	y	J Pad Wellhouse J 7, Not given.	Hydraulic oil	70	Not given.	Not Given	Entered 2-20-90 from old records. Follow up date 12-08-81 and 1-6-82.
1/20/82	82360102001	WESTERN GEOPHYSICAL CO.	y	PRUDHOE BAY COTU LOADING DOCK, -0-	Diesel	70	-0-		FOLLOWUP 2/1/82
4/13/85	85360110301	Sohio	y	GC-2 Skids 407 & 481, -0-	Glycol	70	Floor dry, con. snow & gravel scraped up		-0-

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/3/88	88360121601	ARCO Alaska, Inc.	y	DS 12, Well 10, contained on gravel pad	Diesel	70	Absorbents/contaminated gravel removed with loader	Incineration/approved Landfill	-0-
10/26/88	88360130003	ARCO Alaska, Inc.	y	L4, Well 11, contained on pad	Diesel	70	Absorbents for materials, loader for snow	Incineration/approved Landfill	wrong valve opened, blender van overfilled, gelled diesel spilled
5/23/89	89360114302	BPXA	m	Spine Road at Frontier Camp, snow and ice on road, snow berm on shoulder of ro	Hydraulic oil	70	Pooled fluid soaked up with absorbents, snow scraped up with shovels and loader. sorbents to incinerator, snow melted for recycle.	Multiple	30 gal. hydraulic, 40 gal. diesel spilled when Conam truck jacknifed in road, rupturing tanks.
9/24/89	89360126702	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Diesel	70	Absorbents used, rakes and loader removed gravel. sorbents to nsb incinerator, gravel to nsb sowp.	Multiple	Broken fuel line from tank.
12/30/89	89360236401	BPXA	y	Gathering Center 3, Skid 301, Contained in snow and ice under skid building.	Seawater	70	Snow, ice removed by loader. snow/ice to melt tank at a3w2 warehouse for melting and reclamation.	Recycled	Valve failed, allowing seawater to leak from skid building. No tundra or water affected. "Port-a-Berm" placed under valve at skid to contain any leaks. Visual inspection reveals no further evidence of contamination by seawater.
10/7/91	91730228001	BPXA	y	R Pad Well 3, 3 sq ft gravel	Produced water	70	Absorbents used, snow/gravel scraped up with grader and loader. sorbents to nsb incin., gravel to arco pad 3.	Incineration/approved Landfill	Ice plug released cauing surge of gas and fluid into tank. Total volume 70 gal. prod. water, 10 gal. methanol.
7/1/96	96399918305	ARCO	y	FS 1, DS 1,2,4,12 & 18, WGI, AGI & NGI PADS,	Diesel	70	Took Report, Case Closed 01-00-00		Leak
9/13/96	96399925701	BPXA	y	WELL 2-14,	Crude	70	Phone Follow-up, Case Closed 01-00-00		Other
12/20/96	96399935501	BPXA	y	West Prudhoe Bay, WELL 1-19,	Crude	70	Took Report, Case Closed 01-00-00		Overfill
5/20/97	97399914001	BPXA	ym	West North Slope, BP GC-1 OIL SECTION.,	Crude	70	Took Report, Case Closed 06-09-97		Unknown
6/19/00	00399917101	PHILLIPS ALASKA	ym	East Prudhoe Bay, DRILLSITE 12-10 MANIFORLD BUILDI,	Hydraulic Oil	70	Took Report, Case Closed 06-25-00		Valve Failure
9/13/00	00399925702	BPXA	y	East Prudhoe Bay, NORTHERN GAS INJECTION PAD,	Diesel	70	Took Report, Case Closed 09-14-00		Cargo Not Secured
5/10/01	01399913002	DOYON DRILLING/ BPX	y	West Prudhoe Bay Well Pad M,	Seawater	70	Took Report, Final Report 10-09-01		Human Error
6/11/02	02399916201	BPXA	y	Flow Station 2 (FS-2),	Hydraulic Oil	70	Took Report, Case Closed 07-01-02		Equipment Failure
2/4/05	05399903504	BPXA	y	Seawater Injection Plant (SIP),	Seawater	70	Phone Follow-up, Case Closed 02-07-05		Corrosion
4/5/06	06399909501	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	70	Took Report, Case Closed 04-10-06		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/4/06	06399912401	BPXA	y	West Prudhoe Bay, X PAD, WOA Well Pad X Methanol Spill	Methyl Alcohol (Methanol)	70	Phone Follow-up, Case Closed 05-11-06		Valve Failure
6/5/89	89360115605	ARCO Alaska, Inc.	y	COTU field dock, contained on pad	Diesel	68	Absorbents used, loader removed gravel. sorbents to nsb incin., gravel to pad 3 when temp storage constructed.	Multiple	k
12/20/95	95399935402	BPXA	y	West Prudhoe Bay, M PAD SKID 52,	Crude	68	Took Report, Case Closed 01-00-00		Seal Failure
8/19/81	81360123101	Sohio	y	Skid 54, X pad, Prudhoe, Not given.	Crude	65	Not given.	Not Given	Entered 11-2-89 from old records. Follow up 9-2 and 11-12-81.
11/1/83	83360130502	SOHIO	y	R Pad, Skid 54, Prudhoe, 15' x 25' area/tundra.	Crude	65	Shovels and sorbents.	Unknown	Entered from old records 7/10/83.
1/23/92	92730902301	BPXA	y	GC 2, Contained in snow on pad	Antifreeze	65	Shovels removed snow, took to t pad.	Approved Landfill	
1/15/98	98399901501	ARCO	y	EAST NORTH SLOPE, B.P. DS 16.,	Diesel	65	Took Report, Case Closed 07-15-98		Equipment Failure
1/28/98	98399902801	B.P.	ym	EAST NORTH SLOPE, B.P.,	Methyl Alcohol (Methanol)	65	Took Report, Case Closed 03-12-98		Human Error
4/23/00	00399911401	DOWELL SCHLUMBERGER/BPX	ym	East Prudhoe Bay, ARCO DRILLSITE 11,	Produced Water	65	Took Report, Case Closed 04-27-00		Line Failure
3/6/01	01399906504	NABORS DRILLING	y	East Prudhoe Bay, ALASKA CAMP AT SURFCOTE PAD,	Diesel	65	Phone Follow-up, Case Closed 08-14-01		Cargo Not Secured
10/3/01	01399927601	DOWELL SCHLUMBERGER/BPX(A)	y	West Prudhoe Bay, L PAD,	Diesel	65	Took Report, Final Report 10-04-01		Valve Failure
5/20/04	04399914102	BPXA	y	Seawater Injection Plant (SIP),	Propylene Glycol	65	Phone Follow-up, Case Closed 05-28-04		Equipment Failure
12/7/04	04399934201	BPXA	y	Drill Site 15,	Seawater	65	Took Report, Case Closed 02-07-05		Equipment Failure
10/9/06	06399928201	BPXA	y	Gathering Center 2 (GC-2),	Glycol, Other	65	Phone Follow-up, Case Closed 10-12-06		Overfill
12/7/04	04399934201	BPXA	y	Drill Site 15,	Crude	64	Took Report, Case Closed 02-07-05		Equipment Failure
9/1/85	85360124401	SOHIO Alaska Petroleum Company	y	GC-3, skid 31,	Glycol	63	Vacuum truck	Recycled	
10/29/86	86360930201	Standard Alaska Production Com	y	GC-2, Skid 301,	Glycol	63	Soaked up w/sorbents-contaminated gravel scraped u	Sorbents Incinerated-containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/21/86	86360135501	Standard Alaska Production Com	y	K-Pad, Well 5,	Crude oil/diesel	63	Contaminants scraped up	Interim Containment	
2/9/87	87360104001	Standard Alaska Production Com	y	Well Pad B-7,	Diesel	63	Soake up w/sorbents-contaminants scraped up	Interim Containment	
7/25/87	87360120601	Standard Alaska Production Com	y	GC-1, Skid 451,	Crude	63	Vacuumed liquid	Subsurface Injection	
1/25/88	88360102504	ARCO Alaska, Inc.	y	DS L2,	Crude/diesel	63	Soaked up w/sorbents - contaminants scraped up	Approved Landfill	
7/11/88	88360119302	ARCO Alaska, Inc.	y	DS 14, Well 8, PB;DS14,Well 8	Crude	63	Sorbents used	Approved Landfill	
12/1/88	88360133601	ARCO Alaska, Inc.	y	FS 2 slop oil tanks, contained on pad	Crude	63	Loader used to pick up contaminated snow	Recycled	vacuum truck tank overfilled due to faulty gauge
3/16/89	89360107503	ARCO Alaska, Inc.	y	DS 12, Well 32, contained on pad	Drilling muds	63	Loader used. taken to nsb for disposal	Approved Landfill	Flowline plugged during drilling operation overflowing cellar. Could not begin cleanup until rig could be moved, so report delayed.
4/21/89	89360111107	BPXA	y	GC 1, skid 25, contained on side of building, only 5 gal on snow	Crude	63	Snow scraped up with shovels, taken to melter.	Approved Landfill	Back up in glycol tank caused crude to vent from top of skid buildingSorbents to be placed under skid building and pipe rack to contain future drips until facilities can be cleaned.
7/2/89	89360118401	ARCO Alaska, Inc.	y	C Pad, Central Warehouse, 3% fluid reached tundra and marsh water.	Engine lube oil	63	Sheen treated with absorbents. gravel removed, taken to nsb sowp, absorbents to nsb incinerator.	Multiple	Hose clamp on vac truck vibrated loose, allowed used lube oil to escape. Ribbon of sheen in water. Sorbent pads applied. Not over 200ppm T.O. chlor.
7/2/89	89360118407	ARCO Alaska, Inc.	y	DS 12, Well 20, contained on pad	Methanol	63	Loader scraped up contaminated material, taken to nsb sowp	Approved Landfill	Hardline to flowback tank parted due to ice plug.
9/2/89	89360124502	ARCO Alaska, Inc.	y	DS 1, Well 3, Contained on pad	Crude	63	Absorbents used, loader and vac truck. sorbents to nsb incinerator, gravel to sowp.	Multiple	Material sprayed from tanker vent during transfer caused by foaming agent added to material earlier.
12/23/89	89360235701	ARCO Alaska, Inc.	y	DS 12 Well 21, Contained on pad	Seawater	63	Frozen seawater removed with loader, taken to pad 3, melted, injected.	Subsurface Injection	Ice in line caused needle valve to be jarred open.
2/16/90	90360204702	ARCO Alaska, Inc.	y	DS L5 Well 29, Contained on pad	Seawater	63	Loader and shovels removed contaminated material. taken to snow melter, then injected at pad 3.	Subsurface Injection	Operator left valve open during drilling operation on cement hard line.
2/23/90	90360905401	BPXA	y	West Side Water Flood Tank 315, In and around lined berm at tank hook-up.	Methanol	63	Vac truck removed pooled methanol. snow/ice melted with steam unit and recovered by vac truck. placed in ullage tank for recovery.	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/4/90	90360912401	BPXA	y	BOC Pad ATCO Trailer, Snow and gravel on pad	Methanol	63	Snow, gravel removed by loader, taken to t pad sw pit.	Approved Landfill	Sight glass broke off at bottom of tank trailer coming from C Pad job.
6/23/90	90360217401	ARCO Alaska, Inc.	m	Not given, None, contained on pad.	Gelled water	63	Absorbents, super sucker removed gravel. taken to nsb incinerator and gravel to pad 3 swdp.	Multiple	Fresh water gel and 0.10 percent crude.
7/12/90	90360219301	ARCO Alaska, Inc.	y	SIP, Contained on pad 4 x 4	Seawater	63	Super sucker removed gravel and material, taken to pad 3 sowp.	Approved Landfill	
9/12/90	90360125501	Alaska Petroleum Contractors	y	DS 7 Well 23, Gravel pad	Crude	63	Loader removed gravel, taken to pad 3 sowp.	Approved Landfill	2 bbls 75% crude, 25% water.
1/17/91	91360201701	Conoco	y	E Pad Well E-5, Gravel pad and wellhouse cellar	Other	63	Vac truck, loader removed snow. snow melted, reprocessed.	Recycled	Pressure switch froze, rupturing gasket and spraying injection water.Will be monitored during breakup.
1/19/91	91360201901	ARCO Alaska, Inc.	y	DS 16 Well 19, Contained on pad	Methanol	63	Supersucker used. material taken to pad 3, melted, injected.	Subsurface Injection	20% methanol, 40% gel, 40% seawater.
2/18/91	91360904904	ARCO Alaska, Inc.	y	DS 1 near manifold bldg, Deep snow	Methanol	63	Hand shovels, vac truck removed snow, liquids. snow taken to pad 3 injection.	Subsurface Injection	Related to 2/14 spill at DS 1 of 336 gal. seawater. While removing section of SWI line, residual spilled.
3/6/91	91360506501	VRCA	y	DS 11 Point McIntyre, 30 sq ft	Drilling muds	63	Supersuckers removed 90%, then loaders removed remainder. hauled to pit where mud originally intended.	Recycled	
3/9/91	91360206801	ARCO Alaska, Inc.	y	DS 3 Well 22, Snow on pad	Seawater	63	Loader removed snow, melted, injected pad 3.	Subsurface Injection	During squeeze operation, wire broke and camlock fitting vibrated open.
4/12/91	91360210201	Halliburton Services	y	A Pad Well 1 BP side, Snow/ice	Other	63	Snow/ice removed, taken to nsb landfill.	Approved Landfill	95% water, 5% cement.
4/24/92	92730211501	ARCO Alaska Inc.	y	DS 12 Well 15, Snow on gravel pad	Gelled water	63	Shovels used. material melted, taken to pad 3.	Approved Landfill	
2/25/98	98399905601	BPXA	y	EAST NORTH SLOPE, B.P. NORTHWEST EILEEN 1.,	Drilling Muds	63	Took Report, Case Closed 01-00-00		Leak
10/6/00	00399928002	PEAK OILFIELD SER/BPX	ym	East Prudhoe Bay, DRILL SITE 3 WELL 36,	Other	63	Took Report, Case Closed 10-06-00		Overfill
4/17/02	02399910701	BPXA	y	West Prudhoe Bay, H PAD, H-Pad Well #21 Release	Produced Water	63	Field Visit/s, Final Report 05-10-02		Corrosion
10/7/02	02399910701	BPXA	y	DS 16,	Natural Gas	63	Phone Follow-up, Final Report 05-10-02		Equipment Failure
10/17/90	90360229002	ARCO Alaska, Inc.	y	DS 15 Well 2, Contained on pad	Seawater	62	Loader removed snow/ice, reused.	Recycled	
10/17/90	90360229003	Alaska Petroleum Contractors	y	DS 15 Well 2, Ice and snow on gravel	Seawater	62	Scraped with loader, melted, recycled.	Recycled	
7/17/99	99399919801	BPXA	y	BP, WOA, F PADAY,	Produced Water	62	Took Report, Case Closed 07-20-99		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/2/01	01399915301	NABORS DRILLING/BP EXPLORATION	y	West North Slope Well Pad Y,	Other	62	Took Report, Case Closed 06-02-01		Leak
3/12/02	02399907101	NABORS DRILLING	ym	Hunter #1 exploration well,	Drilling Muds	62	Took Report, Complaint/Report Received 03-13-02		Human Error
6/14/73	73360116501	ARCO Alaska, Inc.	y	COTU-Prudhoe Bay camp, Gravel	Diesel	60	Equipment removed stained gravel and diesel.	Not Given	Equalizing capacity of tank failure. Entered from old records 4-12-91.
4/13/81	81360110301	Sohio	y	Well X-9, Prudhoe, Not given.	Crude	60	Not given.	Not Given	Entered 10-24-89 from old records. Follow up dates 5-4 and 5-10-81.
10/12/85	85360128501	ARCO Alaska, Inc.	y	DS 6,	Crude	60	Used vacuum truck and absorbents		
11/27/85	85360133101	ARCO Alaska, Inc.	m	ARCO Loading Facility/Prudhoe,	Diesel	60	Scraped up with loader	Not Given	
7/17/86	86360119801	Kodiak Oilfield Haulers	y	SAPC GC-3 Pad,	Crude	60	Soaked up with sorbents	Interim Containment	
6/29/88	88360118102	ARCO Alaska, Inc.	y	DS 7, Well 8, contained on pad	Diesel	60	Sorbents used; gravel graded into pad	Incinerated	
11/6/88	88360131101	ARCO Alaska, Inc.	y	DS 16, Well 4, contained on pad	Diesel	60	Absorbents on fluid, loader on contaminated snow	Incineration/approved Landfill	slop tank overfill during wireline operation. 80% diesel, 20% crude
3/8/89	89360106701	Teledyne Marla	m	Shop Building-rear, inside shop on gravel floor	Diesel	60	Sorbents, bagged	Approved Landfill	will move out at end of month. gravel to be removed at that time
5/18/89	89360113804	BPXA	y	GC 2, Skid 22, contained in snow and ice on pad	Antifreeze	60	Snow and ice scraped up with loaders, taken to melter for recovery.	Recycled	
9/7/89	89360125001	BPXA	y	BOC Tank Farm Loading Ramp, Contained on pad	Diesel	60	Absorbents used on pooled diesel, gravel removed with loader and grader. sorbents in dumpster for incineration, gravel to lined berms at santa fe pad.	Multiple	Driver failed to set wheel chocks while loading fuel. Truck rolled backwards off ramp.
10/6/90	90360227901	ARCO Alaska, Inc.	y	Hot Water Plant, Contained on ice/pad	Gelled water	60	Vac truck, squeegees used. material recycled.	Recycled	Foaming action of gelwater caused tank overflow.
12/10/90	90360934401	Halliburton	y	DS 15 Well 25, Not given	Acid	60	Scraped up ice, neutralized, going through waste water recovery sytem.	Recycled	6% hydrochloric acid, 1.5 hydroflouric aced.
12/10/90	90360934402	Halliburton Services	y	DS 15 Well 25, Snow	Acid	60	Scraped up, neutralized, put in ww disposal.	Other	6-1 1/2 HCL-HF spilled while blowing down belly valves on acid transport.
3/23/91	91360108202	BPXA	y	Z Pad Well 9, Snow on pad	Crude	60	Loader removed snow, taken to t pad lined pit.	Interim Containment	
4/12/91	91360510201	BPXA	y	A Pad Well 1, Contained on pad	Cement	60	Material removed, taken to nsb sw land fill.	Approved Landfill	Watered cement spilled when wrong valve opened.
4/28/91	91360911803	ARCO Alaska, Inc.	y	Central lab PBOC, 1-2 sq ft snow on pad	Other	60	Snow collected, placed in drums, shipped to permitted tsd facility.	Interim Containment	Transfer line to drum leaked 99% produced water, 1% acid (nitric and hydrochloric), trace hydrocarbons.
6/7/96	96399915901	ARCO	y	Drill Site 13,	Hydraulic Oil	60	Phone Follow-up, Case Closed 01-00-00		Line Failure
5/1/97	97399912102	B.P.	ym	West Prudhoe Bay, B.P. F PAD MODULE.,	Other	60	Took Report, Case Closed 05-12-97		Line Failure
12/20/97	97399935402	ARCO	ym	EAST NORTH SLOPE, ARCO,	Corrosion Inhibitor	60	Took Report, Case Closed 01-05-98		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/31/98	98399903102	ARCO	ym	EAST NORTH SLOPE, ARCO LCP PAD 3.,	Crude	60	Took Report, Case Closed 03-06-98		Overfill
8/2/98	98399921402	BPXA	y	West Prudhoe Bay, Well Pad R,	Diesel	60	Took Report, Case Closed 08-02-98		Other
2/3/99	99399903401	BPXA	y	West Prudhoe Bay, BP, Well Pad S,	Produced Water	60	Took Report, Case Closed 02-06-99		Other
8/7/99	99399921901	ARCO	y	PRUDHOE BAY, ARCO, DS 3 MANIFOLD,	Produced Water	60	Took Report, Case Closed 08-11-99		Leak
9/7/99	99399925001	ARCO	y	ARCO, EOA, CGF MODULE 4907,	Drag Reducing Agent	60	Took Report, Case Closed 09-10-99		Seal Failure
2/6/00	00399903702	ARCO ALASKA	y	EAST OPERATION AREA PRUDHOE BAY, DRILLSITE 11-12,	Crude	60	Took Report, Case Closed 02-23-00		Equipment Failure
9/9/00	00399925303	BPXA	ym	West Prudhoe Bay, GC-3 GAS SECTION, SKID 20,	Propylene Glycol	60	Took Report, Case Closed 09-12-00		Valve Failure
8/18/01	01399923001	PEAK OILFIELD SER/BP EXPLORATION	y	East Prudhoe Bay, DS 4,	Other	60	Took Report, Final Report 08-21-01		Seal Failure
11/19/01	01399932301	VECO ALASKA/ BPX	y	East Prudhoe Bay, SEAWATER INJECTION PLANT,	Seawater	60	Took Report, Final Report 11-21-01		Human Error
10/14/02	02399928702	BPXA	y	Flow Station 2 (FS-2),	Ethylene Glycol (Antifreeze)	60	Phone Follow-up, Case Closed 12-19-02		Line Failure
6/29/03	03399918001	BPXA	y	BP, WOA, CPS,	Engine Lube Oil	60	Phone Follow-up, Case Closed 06-30-03		Line Failure
5/26/04	04399914702	BPXA	y	Gathering Center 2 (GC-2),	Synthetic Oil	60	Took Report, Case Closed 06-02-04		Corrosion
10/6/05	05399927901	BPXA	y	Gathering Center 3 (GC-3),	Other	60	Took Report, Case Closed 10-10-05		Corrosion
01/07/07	07399900701	BPXA	y	Gathering Center 3 (GC-3),	Produced Water	60	Took Report, Case Closed 01-16-07		External Factors
11/03/07	07399930701	BPXA	Y	Santa Fe Pad, Santa Fe Pad	Diesel	60	Took Report, Final Report 11-07-07		Equipment Failure
7/3/97	97399918401	BPXA	y	West North Slope, BP K PAD.,	Hydraulic Oil	58	Took Report, Case Closed 01-00-00		Other
09/05/07	07399924801	Pioneer Natural Resources	ym	West North Slope, Kuparuk River Unit	Diesel	56	Took Report, Case Closed 09-07-07		Equipment Failure
9/27/81	81360927001	Sohio	y	GC 2, Skid 25, Not given.	Antifreeze	55	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8 and 11-12-81. 50 gal. monoethelene glycol and 2-5 gal. crude.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/25/83	83360129801	SOHIO	y	Inter. G& K Access Rd., 10' x 10' area.	Other	55	Sorbents, contaminants bagged.	Unknown	Type: Resine B. Also final report on 11/8/83. Entered from old records 7/10/90.
11/29/85	85360133301	Sohio Alaska Petroleum Company	y	N-Pad Access & Spine Road Inte,	Hydraulic oil	55	Soaked up with absorbent pads/scraped up		
12/1/85	85360133501	ARCO Alaska, Inc.	y	DS 6 Prudhoe,	10 wt oil asn 195-3575	55	Contaminated snow scraped up		Taken from Prudhoe Bay DEC Recorder - No other information given
7/24/86	86360120501	Standard Alaska Production Com	y	F Pad, Prudhoe Bay,	Diesel	55	In process - soaking up with sorbents	Unknown	
5/30/89	89360115006	ARCO Alaska, Inc.	y	DS 14, Well 40, Not given	Drilling muds	55	Cuttings and muds removed to adjacent reserve pit	Interim Containment	When drilling rig moved spill discovered, presumed spilled during drilling activities.
5/30/89	89360155004	ARCO Alaska, Inc.	y	DS 14, Well 40, contained on pad	Drilling muds	55	Loader scraped up contaminated material, taken to reserve pit on ds 14.	Interim Containment	Snow melt exposed residual waste from previous drilling activity.
12/14/89	89360934802	ARCO Alaska, Inc.	y	DS 5, Contained on pad	Antifreeze	55	Snow removed, taken to pad 3 for injection.	Subsurface Injection	Contained of hydrotest liquid was spilled during a cleanup operation. Mixture 60% water, 40% glycol hydrotest medium.
2/15/90	90360104601	BPXA	m	PE Pad entrance spine road, Contained on pad	Hydraulic oil	55	Grader and loader scraped up material, taken to indoor melter for recovery.	Recycled	Drum not tied down, fell off truck.
3/26/90	90360108503	ARCO Alaska, Inc.	y	Point McIntyre Well 8 Nabors 2ES Rig, Contained on pad	Hydraulic oil	55	Sorbents used, ice removed. sorbents to nsb incinerator; ice to cuttings box, then pad 3 for injection.	Multiple	Drum being transferred fell, ruptured.
7/9/90	90360119002	ARCO Alaska, Inc.	y	FS 2, Gravel pad	Diesel	55	Gravel removed, taken to pad 3.	Approved Landfill	
12/4/90	90360233802	BPXA	y	GC 1 Skim Tank, Contained on pad	Produced water	55	Ice scraped and shoveled up, placed in lined t pad pit.	Interim Containment	Vac truck lost vacuum while unloading.
9/15/91	91730125801	BPXA	y	GC1 Skid 326, Contained on pad	Crude	55	Loader removed gravel, took to arco pad 3.	Approved Landfill	Vac truck overflow.
1/28/92	92730102801	BPXA	y	GC2 W Pad LDF, Contained in snow on pad	Crude	55	Loaders removed snow, took to t pad.	Approved Landfill	Oil observed leaking through seams in insulation covering.
8/20/95	95399923201	BPXA	y	West Prudhoe Bay, CC2,	Drilling Muds	55	Took Report, Case Closed 01-00-00		Overfill
1/16/97	97399901602	BPXA	y	West Prudhoe Bay, P PAD,	Engine Lube Oil	55	Phone Follow-up, Case Closed 01-00-00		Puncture
1/16/97	97399901603	BPXA	y	West Prudhoe Bay, P PAD,	Other	55	Took Report, Case Closed 01-00-00		Puncture
7/25/01	01399920601	M I DRILLING	ym	West Prudhoe Bay MI MIXING PLANT ON SPINE ROAD,	Diesel	55	Phone Follow-up, Case Closed 07-25-01		Puncture
9/14/02	02399925701	BPXA	y	Flow Station 1 (FS-1),	Engine Lube Oil	55	Took Report, Case Closed 10-16-02		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
02/01/07	07399903201	BPXA	y	Flow Station 3 (FS-3),	Crude	55	Took Report, Case Closed 02-05-07		Equipment Failure
6/25/89	89360117602	BPXA	y	BPX Stores Yard, contained on pad	Hydraulic oil	54	Sorbents laid down on gravel, gravel removed with loader. sorbents to nsb incinerator, gravel to tank at santa fe pad.	Multiple	Moving unbanded pallet of drums, one slid off and broke open.
3/2/00	00399906203	BPXA	ym	West Prudhoe Bay, MOWF STORAGE YARD,	Propylene Glycol	54	Took Report, Case Closed 03-04-00		Leak
11/9/01	01399931301	BPXA	y	West Prudhoe Bay Well Pad S,	Seawater	54	Took Report, Final Report 11-12-01		Corrosion
2/19/02	02399905001	BPXA	y	Flow Station 1 (FS-1),	Drilling Muds	54	Field Visit/s, Final Report 07-07-02		Seal Failure
12/5/88	88360134006	SAPC Endicott	y	J-Pad Skid 52, contained on pad	Crude	52	Material picked up with shovels and loader	Recycled	isolation ring failure
3/31/01	01399909001	BPXA	y	East Prudhoe Bay, CENTRAL COMPRESSION PLAN MODULE,	Engine Lube Oil	52	Took Report, Case Closed 04-04-01		External Factors
11/5/02	02399930901	ALASKA PETROLEUM CONTRACTORS	y	Well Pad Y,	Diesel	52	Field Visit/s, Case Closed 12-02-02		Overfill
4/14/91	91360110401	Conam	y	C Pit, Gravel pad	Diesel	51	Not given.	Not Given	Diesel/hydraulic.
11/27/74	74360133101	Unknown	m	Slope between Deadhorse and Base Camp, Not given	Diesel	50	Not given	Unknown	Data entered 9-21-89 from handwritten records.
4/7/76	76360109701	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Diesel	50	Contained and absorbed with snow	Incinerated	
4/21/78	78360111101	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Diesel	50	Sorbent pads	Incinerated	V.E. Construction, Inc.
3/20/81	81360107905	P.C.I.	m	Deadhorse PCI shop facility, Not given	Diesel	50	Not given.	Not Given	Entered 9-28-89 from old records. Spill date unknown.
3/26/81	81360108501	Sohio	y	E Pad near Manifold Bldg., Not given.	Antifreeze	50	Not given.	Not Given	Entered 9-28-89 from old records. Triethelene glycol. Follow up 4-6-81.
5/15/81	81360113501	Sohio	y	Cold Storage Pad, Prudhoe, Not given.	Engine lube oil	50	Not given.	Not Given	Entered 10-26-89 from old records. Used motor oil. Follow up 7-28-81.
5/21/81	81360114103	Sohio	y	Central Power Station Phase I Prudhoe, Not given.	Engine lube oil	50	Not given.	Not Given	Entered 10-26-89 from old records. Follow up 6-4 and 7-28-81.
5/27/81	81360114701	Sohio	y	Rig 18E, B pad, Prudhoe, Not given.	Crude	50	Not given.	Not Given	Entered 10-26-89 from old records. Follow up 6-4 and 7-28-81.
5/31/81	81360115102	ARCO Alaska, Inc.	y	DS 6, Pad 3, Gravel	Diesel	50	Vac truck used. fork lift removed gravel, put in new.	Not Given	Entered 10-26-89 from old records. Valve hung up on tanker causing tank to overflow.
8/8/81	81360922001	ARCO Alaska, Inc.	y	Central Compressor Plant, Prudhoe, Not given.	Antifreeze	50	Absorbents used, 1 to 2 inches gravel removed. pads to nsb incinerator, gravel to nsb landfill.	Incineration/approved Landfill	Entered 10-31-89 from old records.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/4/81	81360124702	Sohio	y	Spine Road from CPS to Sohio check point, Not given.	Diesel	50	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8-81.
9/9/81	81360125201	Kodiak Oilfield Haulers	y	North end of West dock on west side, Not given.	Fuel oil	50	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 9-15-81. #2 fuel oil.
9/13/81	81360925601	Sohio	y	GC 2, Skid 5, Not given.	Other	50	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8 and 11-11-81. Silicon Antifoam.
11/5/81	81360130901	Sohio	y	GC 2 Skid 25, Not given	Crude	50	Not given	Not Given	Entered 2-15-90 from old records. Telex 12-2-81.
11/25/81	81360132901	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, Contained on gravel pad	Fuel oil	50	Removed fuel/snow with shovels and fork lift. taken to nsb landfill.	Approved Landfill	Entered 2-9-90 from old records. Leaking "dry lock" valve.
1/13/82	82360101301	Sohio	y	Sohio Well, Not given.	Transmission oil	50	Not given.	Not Given	Entered 3-12-90 from old records. Follow up 1-21-82.
6/24/82	82360117501	ARCO Alaska, Inc.	y	Crude Oil Topping Unit, Prudhoe Bay, Remained on gravel pad in dike area.	Diesel	50	Buckets and vacuum truck and absorbent pads.	Multiple	Liquid to fire pit at Fire school & pads to NSB incinerator. Entered from old records 4-28-90.
8/9/82	82360122101	ARCO Alaska, Inc.	y	Cross over line from Well 13-18 to Well 13-26, Prudhoe Bay, Gravel on manifold pad at Drill Site #13.	Crude	50	Gravel removed and absorbent pads used.	Multiple	Pads taken to NSB incinerator and gravel spread on Drill site access road. Entered from old records 4-28-90.
8/15/82	82360122701	ARCO Alaska, Inc.	y	FS 1, Gravel pad and crude/water mixture under module.	Crude	50	Vacuum truck, absorbent pads, removed gravel.	Multiple	Water mixed with crude: primarily crude. Water injected in injection well. Absorbent pads to NSB incinerator and gravel spread on main spine road. Entered from old records 4-28-90.
2/9/83	83360104001	ARCO Alaska, Inc.	y	DS 3, Well 16, Prudhoe, Unknown	Crude	50	P/u crude/snow mix. deposit in nsb landfill.	Approved Landfill	Cause: Valve Ice Plug Melted.Entered from old records 6/16/90.
9/27/83	83360127001	ARCO Alaska, Inc.	y	COTU Loading dock, None	Diesel	50	Sorbents	Approved Landfill	Entered from old records 7/10/83. Summit Equipment listed as responsible party.
12/5/83	83360133903	ARCO Alaska, Inc.	m	Spine Rd. & C Pit, Not Given	Diesel	50	Not given	Not Given	Cause: Diesel Fuel Truck. Entered from old records 7/30/90.
7/3/84	84360118302	CAMCO Wireline	m	CAMCO lease, Spine Road, Prud,	Engine lube oil	50	Dug up contaminated gravel/replaced with clean	Approved Landfill	
1/12/85	85360101202	Sohio	y	R-19 next to well house,	Reserve pit fluids	50	966 loader w/bucket scraped up con. snow& ice		
2/8/85	85360103902	Sohio	y	Sag #1 exploration,	Crude	50	Con snow & ice scrpaed up, sorbents		
4/8/85	85360109802	Sohio	y	GC-2 Skid 491,	Glycol	50	Scraped up con. snow & ice		
6/30/85	85360118101	CAMCO Wireline	m	Spline road,	Engine lube oil	50	Effected area dup up	Approved Landfill	
7/23/85	85360120401	Sohio	m	Well #19,	Crude	50	Gravel scraped up		
12/11/85	85360134501	Sohio Alaska Petroleum Company	y	BOC Pad Fuel Pumps,	Diesel	50	Soaked up w/absorbents - contaminated snow scraped		

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/4/86	86360121603	ARCO Alaska, Inc.	y	DS L3 Portable test,	Crude	50	Soaked w/sorbents-contaminated gravel scraped up	Multiple/see Comments	sorbents to NSB incinerator-gravel respread on road
9/26/86	86360126901	Peak Oilfield Services	y	ARCO's MCC Main Camp, Prudhoe,	Gasoline	50	Contaminated gravel scraped up	Unknown	
10/3/86	86360927601	ARCO Alaska, Inc.	y	FS 1,	Methanol	50	Scraped up contaminated snow and gravel	Multiple/see Comments	Liquids recycled/contaminated gravel to C-Pad for containment
12/27/86	86360136101	ARCO Alaska, Inc.	m	Topping Plant,	Diesel	50	Contaminants scraped up		
2/22/87	87360105302	Standard Alaska Production Com	y	J-Pad,	Water/cement fluids	50	Scraped up contaminants	Interim Containment	Contractor drained mud line.
3/31/87	87360109001	ARCO Alaska, Inc.	y	DS 7,	Diesel	50	Contaminants scraped up	Subsurface Injection	
6/14/87	87360116501	Standard Alaska Production Com	y	Behind VMS Fuel Tanks, Ditch between Spine Road and pad	Diesel	50	Soaked up with sorbent-vac truck sucked up liquid	Sorbents Incinerated-liquids Inject	Found after spring thaw.
6/22/87	87360117301	Standard Alaska Production Com	y	A-17,	Unknown	50	Contaminated gravel scraped up	Interim Containment	
7/17/87	87360119802	Standard Alaska Production Com	y	GC-2 Skid 257,	Crude	50	Soaked up with sorbents/contaminants scraped up	Sorbents Incinerated/cnts. Respred	
7/24/87	87360120501	Standard Alaska Production Com	y	J Pad, 35' X 250' of ditch	Crude/diesel	50	Vacuumed liquids/soaked with sorbents	Liquid To Pit/sorbents Incinerated	no evidence of contamination remains in impoundment area
7/29/87	87360120901	Standard Alaska Production Com	y	M- Pad, Well house 12,	Crude	50	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-gravel Injecte	
8/4/87	87360121601	Standard Alaska Production Com	m	Y???B,	Diesel	50	Contaminated gravel scraped up	Subsurface Injection	
8/7/87	87360121902	ARCO Alaska, Inc.	y	J Pad, Storage pad maintenance area	Weathered hydrocarbon	50	Liquid vacuumed/soaked up with sorbents	Liquid Injected/sorbents Incinerate	
8/24/87	87360123601	Standard Alaska Production Com	y	GC-II, Skid 452,	Crude	50	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-cont. Stored	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/3/87	87360127601	Standard Alaska Production Com	y	J-23, Behind wellhouse	Crude	50	Contaminated gravel scraped up	Approved Landfill	Leaky stripper rubber.
1/11/88	88360901101	Standard Alaska Production Com	y	GC-3, Skid 25,	Glycol	50	Contaminants scraped up	Approved Landfill	
2/5/88	88360103601	Standard Alaska Production Com	y	GC-1, Ullage System,	Crude	50	Vacced up liquid-soaked w/sorbents-contam scraped	Liquid 4, Sorbs 1, Contaimnants 2	
2/5/88	88360103602	Standard Alaska Production Com	y	H-19, Area around well house	Diesel/crude	50	Soaked up w/sorbents - contaminants scraped up	Sorbents Incinerated-conts To Oily	Well kicked.
2/17/88	88360904801	ARCO Alaska, Inc.	y	DS 18,	Glycol	50	Contaminants scraped up	Interim Containment	
2/28/88	88360105901	Standard Alaska Production Com	y	GC1, Skid 304, West Side Waterflood, next to GC-1	Turbine fuel	50	Contaminants scraped up	Approved Landfill	Product turbine fuel.
4/3/88	88360109401	Standard Alaska Production Com	y	CC #1, Bus caught on fire	Water/ash/lube oil	50	Contaminants scraped up	Approved Landfill	
4/4/88	88360109501	Standard Alaska Production Com	y	C-3, Area around tank which overfilled	Diesel	50	Soaked up with sorbents	Incinerated	
4/19/88	88360111001	Standard Alaska Production Co.	y	GC-3, Skid 301,	Seawater	50	Contaminants scraped up	Approved Landfill	Spill was 40-50 gallons sea water with 1 gallon crude
4/24/88	88360111502	ARCO Alaska, Inc.	y	DS L2, Well 13,	Diesel	50	Vacuumed liquid-soaked w/sorbents-contams scraped	Liquid-pad 3/sorbs & Contams To Nsb	
4/24/88	88360111503	ARCO Alaska, Inc.	y	FS 2,	Condensate/seal oil	50	Contaminants scraped up	Approved Landfill	Plugged line overflowed.
5/3/88	88360112401	Standard Alaska Production Com	y	Well house A-30,	Diesel	50	Contaminants scraped up	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/15/88	88360113602	Standard Alaska Production Com	y	GC-II, Skid 25,	Crude	50	Vac truck/soaked up with sorbents	Liquid-ullage/sorbents Incinerated	
6/5/88	88360115702	ARCO Alaska, Inc.	y	DS 2 Wellhouse 7 & 8,	Crude	50	Contained; contaminants scraped		Cause: unknown
6/16/88	88360116801	Standard Alaska Production Com	y	Vehicle Maintenance Shop Yard, seeped through dike wall into adjacent impoundment	Diesel	50	Vacuum truck/gravel removed with backhoe	Multiple/see Comments	
6/24/88	88360117601	ARCO Alaska, Inc.	y	DS 3,	Unknown	50			Cause:hose fitting failure; Oiltype:treated pit water
7/1/88	88360118305	Standard Alaska Production Com	y	Z Pad (Rig 2), 1-2 gal off pad into water on east side of pad	Diesel	50	Sorbents	Approved Landfill	Line open to Tioga Heater. Valve installed in line.
8/4/88	88360121701	Standard Alaska Production Com	y	G-Pad, North pit, tundra between north reserve pit & module pad	Drilling muds	50	Built dike, area flushed/vacuum truck & shovel	Approved Landfill	drilling fluids overtopped reserve pit dike walls/50 cubic yards
8/29/88	88360124205	ARCO Alaska, Inc.	y	DS 7, Well 13, contained on pad	Crude	50	Vac truck used/loader and dump truck-remove gravel	See Disposal	while transporting an arctic pac truck material lost out the vent pipe
9/10/88	88360125406	SAPC Endicott	m	Flare Stack, contained	Crude	50	Vac skimmer, absorbent recovery, scalp gravel	Multiple/see Disposal	foaming oil from new well misted onto ground & surface of cooling pond
10/25/88	88360129903	ARCO Alaska, Inc.	y	L4, Well 30, contained on pad	Hydraulic oil	50	Shovels	Approved Landfill	mixture of hydraulic fluid, crude, diesel and brine
11/6/88	88360131102	ARCO Alaska, Inc.	y	DS 6, Well 12, contained on pad	Diesel	50	Absorbents on fluid, loader on contaminated snow	Incineration/approved Landfill	pressure relief valve opened during freeze protection operation
11/11/88	88360131604	ARCO Alaska, Inc.	y	DS 5, Well 16, contained on pad	Crude	50	Absorbents on material; loader for snow	Incineration/approved Landfill	during well stimulation hardline connection failed
1/8/89	89360100802	ARCO Alaska, Inc.	y	DS L5, Well 25, 10'x15' area on gravel pad/West side of pad	Diesel	50	Loader used to remove material and con. snow	Recycled	While removing back pressure valve from well bore, ice blockage released, material sprayed out.
2/19/89	89360105004	ARCO Alaska, Inc.	y	CGF beneath module 4901, contained on pad	Antifreeze	50	Vac truck, loader, handshovels	Approved Landfill	60% water, 40% glycol
5/15/89	89360913501	BPXA	y	GC 2, skid 20, contained on pad	Antifreeze	50	Contaminated snow and ice scraped up with loader and taken to melter for thawing	Recycled	Material TEG spilled when stripping gas PSV relieved causing vent of gas and TEG to outside
5/30/89	89360115003	ARCO Alaska, Inc.	y	DS L4, tundra pond and gravel	Other	50	Pit being pumped down. disposal not given.	Not Given	Reserve Pit water released when reserve pit overtopped with water.
7/16/89	89360119707	ARCO Alaska, Inc.	y	J Pad, contained on pad	Acid	50	Vac truck sucked up free liquid, absorbents used on remainder. liquid to pad 3, pads to nsb sowp	Multiple	Spent hydrochloric acid (90% water, 10% Dica, material mixture ph 6-7leaked from side of tank.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/28/89	89360120904	CAMCO Wireline Inc	m	Spine Road, Sante Fe Pad, Contained on gravel pad	Hydraulic oil	50	Absorbents used, gravel dug up and replaced. sorbents to nsb incinerator, gravel to nsb sowp.	Approved Landfill	Cleanup done by BP Explorations. Drum not tied to flatbed, fell off.Report sent by BP 7-28 indicates no tundra or water affected.
8/26/89	89360123801	BPXA	y	GC 3, Skid 4A, contained on pad	Crude	50	Sorbents laid down, contaminated gravel removed. sorbents to nsb incinerator, gravel to nsb owp.	Multiple	Operator forgot line was oil filled and briefly vented it to maintenance vent system.
1/14/90	90360101403	BPXA	y	M Pad, Contained on pad	Diesel	50	Snow/gravel removed by loader, taken to t pad sowp for recovery.	Recycled	Fuel leaked from sight glass tube on tank near rig camp.
2/7/90	90360103801	BPXA	y	GC 1 West entrance, Oil contained in snow on top of tundra	Crude	50	Loaders removed snow. 5 men w/shovels removed snow from other areas. will take to t pad.	Approved Landfill	Two off pad areas affected. Moderate spray 25 x 10 ft at leak, light spray across from entrance rd. 4500 sq ft. 99% oil laying on top of snow cover, tops of plants sticking through snow only vegetation that will be affected. Final reports visual inspectio
5/20/90	90360114002	Western Geophysical	m	Equipment Staging Pad at Mine Site F, 100 sq ft on pad, sheen on tundra	Diesel	50	Vac truck used, containment booms and pads. gravel removed to lined pit for testing, then disposal.	Not Given	ARCO discovered spills spattered all over pad. Appear to be chronic series from multiple vehicle leaks. Diesel odor present.
5/22/90	90360114201	ARCO Alaska, Inc.	y	CCP, Contained on pad	Engine lube oil	50	Absorbents, shovels, rakes, super sucker, loader used. taken to pad 3 sowp	Subsurface Injection	Ideal plus lube oil spilled when high pressure line cracked.
6/9/90	90360116003	BPXA	y	CGF Road between C Pad and CGF, Contained on roadway	Hydraulic oil	50	Sorbents used, loader removed gravel. pads to nsb incinerator, gravel to a3w2 for recovery.	Multiple	Crane blew hose.
6/17/90	90360916801	BPXA	y	K Pad Skid 54, Contained on pad	Methanol	50	Loader removed gravel, takent to arco pad 3.	Approved Landfill	Methanol escaped from piping in advance of pigging operation.
7/11/90	90360119202	BPXA	y	CSP Pad, Contained on pad	Diesel	50	Gravel removed, taken to pad 3.	Approved Landfill	Fueler overfilled dewatering pump.
7/12/90	90360119302	BPXA	y	GC 2 Skid 21, Contained on pad	Diesel	50	Gravel removed, taken to pad 3.	Approved Landfill	Valve not properly closed.
7/20/90	90360120101	BPXA	y	GC 1 451, Contained on pad	Crude	50	Absorbents used, gravel removed by loader. sorbents to incin., gravel to arco pad 3.	Incineration/approved Landfill	Opened spool to install flange and found oil present.
8/1/90	90360121305	BPXA	yy	GC 2 Skid 21, Gravel under skid bldg.	Diesel	50	Gravel removed, taken to pad 3. pooled diesel returned to gc ullage system.	Multiple	Clean gravel to fill in excavated area.
8/1/90	90360121301	BPXA	y	GC 2 Skid 21, Gravel under skid	Diesel	50	Gravel and pooled diesel removed. gravel to arco pad 3, diesel to gc ullage system.	Multiple	
8/12/90	90360222401	ARCO Alaska, Inc.	y	FS 3, Contained on pad	Produced water	50	Super suckers used, taken to pad 3 sw pit.	Approved Landfill	Module overflowed while draining system.
11/14/90	90360531801	VECO	y	DS L5, Contained on pad	Other	50	Loader removed material, placed in reserve pit.	Interim Containment	Polymer mud and water (no ratios) spilled when material unloaded at too fast a rate.
12/11/90	90360234501	ARCO Alaska, Inc.	y	DS L3 Well 12, Snow and ice on pad	Seawater	50	Vac truck used, taken to pad 3.	Approved Landfill	
12/29/90	90360236301	BPXA	y	Pad A well 30, Contained on pad	Seawater	50	Snow/ice scraped up with loader. taken to t pad pit.	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/6/91	91360200601	Dowell Schlumberger	y	DS 17, 8 x 25 area snow and ice	Gelled water	50	Loader, bucket, shovel removed snow/ice, put in sw container.	Approved Landfill	
2/1/91	91360103202	BPXA	y	W-15 Pad, Snow on pad	Hydraulic oil	50	Loader removed material, took to t pad for disposal and summer recovery.	Multiple	
2/21/91	91360105203	Eskimo Inc.	m	Block B Tank Farm, 6 x 8 ft snow on gravel	Gasoline	50	Absorbents used, snow removed, placed in open top barrels. will be shipped out to deadhorse or south.	Interim Containment	Overfilled tank.
4/7/91	91360109702	BUECI	m	BUECI Bus barn driveway, Snow on gravel	Diesel	50	Absorbents used, snow removed. put in nsb burnable dumpster.	Incinerated	Barrow Utility and Electric Coop Inc.
4/25/91	91360911502	BPXA	y	Y Pad methanol tank, Contained on pad	Methanol	50	Loader removed material, took to t pad waste pit.	Approved Landfill	Trailer leaning due to uneven ground, load shifted and came out top hatch.
5/1/91	91360112101	BPXA	y	F Pad east pad, 15 x 30 ft tundra and pad	Diesel	50	Backhoe, dozer removed snow, took to t pad for recovery.	Interim Containment	Snow with 45 gal. diesel, 5 gal. glycol pushed off pad when rig was moved. 15 x 30 ft tundra burned to remove contaminants. Area seeded. No further evidence of contamination remains.
6/11/91	91360116204	BPXA	y	GC2 Skid 481, Gravel pad	Crude	50	Sorbents/vac truck/loader used. gravel taken to lined pit at t pad for summer recovery. sorbents incin., fluids recycled.	Multiple	On recorder.
6/13/91	91360916402	VECO	y	K Pad Vehicle Maintenance Shop, 420 sq ft gravel	Diesel	50	Gravel bagged, taken to 1h pad.	Approved Landfill	
6/23/91	91360117403	ARCO Alaska, Inc.	y	DS 2 Pipeline Rd to SIP, 15 x 20 on tundra, ice pack	Hydraulic oil	50	Booms, absorbents used, vac truck. area flushed with water until no sheen visible. gravel to pad 3, sorbents to nsb incin. fluid injected pad 3.	Multiple	On recorder. Material sprayed onto gravel. 20 ft stream off ice pack.
8/1/91	91730121301	ARCO Alaska, Inc.	y	LPC Mod 4954, 150 sq ft gravel pad under mod	Diesel	50	Backhoe removed gravel. gravel washed, recycled at pad 3.	Recycled	Leaky valve on turbo generator.
10/11/91	91730228402	BPXA	y	Y Pad Well 4, Contained on pad	Seawater	50	Grader removed contaminant, hauled to pad 3 lined pit.	Approved Landfill	Cracked manifold on Tiger Tank.
10/26/91	91730229901	BPXA	y	GC 3, Contained on pad	Seawater	50	Material removed, taken to a3w2 for melting. will be reused.	Recycled	Slow leak from gas relief valve at Skid 301. Material froze into stalagmite about the size of a drum.
12/13/91	91730234701	BPXA	y	GC 1 Skid 311, Contained in snow/ice on pad	Seawater	50	Warm fresh water added to assist recovery by vac trucks. will be used as melt water.	Recycled	
12/27/91	91730936101	BPXA	y	B Pad Well 29, Contained on pad	Methanol	50	Loader removed materials, took to pad 3.	Approved Landfill	Rubber gasket missing from camlock fitting.
2/23/92	92730205401	BPXA	y	Y Pad Well 23, Contained on pad	Seawater	50	Snow/ice removed by loader, taken to t pad.	Approved Landfill	Flange broke on frac tank due to extreme cold.
7/27/95	95399920801	ARCO	y	East Prudhoe Bay, FS 2,	Produced Water	50	Took Report, Case Closed 01-00-00		Equipment Failure
10/28/95	95399930101	ARCO ALASKA INC.	y	East Prudhoe Bay, PAD 3,	Diesel	50	Took Report, Case Closed 01-00-00		Valve Failure
2/23/96	96399905401	ARCO	y	East Prudhoe Bay, CGF,	Other	50	Took Report, Case Closed 01-00-00		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/13/96	96399916502	ARCO	y	East Prudhoe Bay, FS 2,	Engine Lube Oil	50	Took Report, Case Closed 06-18-96		Leak
8/5/96	96399921801	BPXA	y	West Prudhoe Bay, J PAD SKID 54,	Crude	50	Took Report, Case Closed 01-00-00		Overfill
9/11/96	96399925501	BPXA	ym	WOAM PAD,	Other	50	Phone Follow-up, Case Closed 09-11-96		Equipment Failure
10/18/96	96399929201	BPXA	y	Well Pad H,	Hydraulic Oil	50	Took Report, Case Closed 01-00-00		Line Failure
1/20/97	97399902002	BPXA	ym	West Prudhoe Bay, SKID 303,	Ethylene Glycol (Antifreeze)	50	Took Report, Case Closed 01-00-00		Leak
1/29/97	97399902901	BPXA	y	West Prudhoe Bay, PAD C,	Methyl Alcohol (Methanol)	50	Took Report, Case Closed 11-17-97		Human Error
2/3/97	97399903401	ARCO	y	East Prudhoe Bay, NGI,	Crude	50	Phone Follow-up, Case Closed 05-29-97		Other
2/3/97	97399903402	ARCO	y	East Prudhoe Bay, NGI,	Crude	50	Took Report, Case Closed 03-01-97		Overfill
7/30/97	97399921102	ARCO	ym	West North Slope, ARCO, CPF1 MODULE GRAVEL PAD.,	Glycol, Other	50	Field Visit/s, Other 12-03-99		Leak
2/1/98	98399903201	ARCO	y	EAST NORTH SLOPE, ARCO CGF.,	Ethylene Glycol (Antifreeze)	50	Took Report, Case Closed 01-00-00		Leak
10/14/99	99399928702	BPXA	y	West Prudhoe Bay, Well Pad G-21,	Other	50	Took Report, Case Closed 10-19-99		Equipment Failure
2/4/00	00399903503	ARCO ALASKA	y	East Prudhoe Bay, EASTERN OPERATING AREA, SEAWATER,	Seawater	50	Took Report, Case Closed 02-12-00		Corrosion
3/15/00	00399907502	ARCO ALASKA	y	East Prudhoe Bay, DRILLSITE 15,	Hydraulic Oil	50	Field Visit/s, Case Closed 09-06-00		Line Failure
5/12/00	00399913301	BPXA	y	West North Slope, Well Pad A,	Seawater	50	Took Report, Case Closed 05-12-00		Overfill
6/19/00	00399917102	BPXA	ym	West Prudhoe Bay, Well Pad S, S-12 FLOWLINE,	Crude	50	Took Report, Case Closed 06-20-00		Line Failure
2/14/01	01399904502	NABORS DRILL/BP EXPLORATION	y	East Prudhoe Bay, NORTHERN GAS INJECTION (NGI),	Seawater	50	Took Report, Case Closed 03-15-01		Valve Failure
4/23/01	01399911303	BPXA	y	West Prudhoe Bay, GATHERING CENTER 1,	Ethylene Glycol (Antifreeze)	50	Took Report, Case Closed 04-24-01		Overfill

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/17/01	01399913701	BPXA	y	West Prudhoe Bay, GATHERING CENTER 3 PAD SKID 19,	Ethylene Glycol (Antifreeze)	50	Took Report, Case Closed 05-17-01		Leak
6/11/01	01399916202	BPXA	y	West Prudhoe Bay, F-PAD SKID 52,	Hydraulic Oil	50	Took Report, Case Closed 06-12-01		Equipment Failure
6/25/01	01399917601	BPXA	y	West North Slope J-18, CRUDE OIL J-18 SPILL	Crude	50	Phone Follow-up, Case Closed 07-05-01		Unknown
4/17/03	03399910701	BPXA	y	East Prudhoe Bay, DS 17,	Corrosion Inhibitor	50	Field Visit/s, Case Closed 08-05-03		External Factors
9/12/03	03399925501	BPXA	y	Well Pad B,	Crude	50	Took Report, Case Closed 09-16-03		Unknown
11/20/04	04399932502	BPXA	y	Well Pad S, Well Pad S-33 Well Leak	Diesel	50	Took Report, Final closure pending 07-24-07		Line Failure
4/14/05	05399910403	ASRC Energy Ser (formerly APC)	y	East Prudhoe Bay, DRILL SITE 17,	Corrosion Inhibitor	50	Field Visit/s, Case Closed 05-26-05		Unknown
8/22/05	05399923402	BPXA	y	Main Construction Camp (MCC),	Other	50	Phone Follow-up, Case Closed 09-19-05		Seal Failure
9/11/05	05399925401	BPXA	y	Gathering Center 2 (GC-2),	Other	50	Phone Follow-up, Case Closed 09-11-05		Equipment Failure
11/4/06	06399930801	ASRC Energy Ser (formerly APC)	y	Lisburne Production Center (LPC),	Diesel	50	Phone Follow-up, Case Closed 11-06-06		Equipment Failure
11/18/06	06399932201	BPXA	y	Seawater Injection Plant (SIP),	Seawater	50	Field Visit/s, Case Closed 11-28-06		External Factors
05/25/07	07399914501	BPXA	y	Well Pad V, BP West Prudhoe Bay	Drilling Muds	50	Phone Follow-up, Other 06-29-07		Unknown
8/2/88	88360121502	ARCO Alaska, Inc.	y	DS 2, Well 23, contained on pad	Diesel	48	Absorbents/contaminated gravel removed with loader	Incineration/approved Landfill	
6/13/96	96399916503	ARCO	y	East Prudhoe Bay, FS 3,	Engine Lube Oil	48	Took Report, Case Closed 06-18-96		Leak
10/27/01	01399930001	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Hydraulic Oil	48	Took Report, Final Report 11-04-01		Gauge/Site Glass Failure
1/3/91	91360900302	BPXA	y	X Pad Well 3, Contained in snow on pad	Methanol	47	Loader removed snow. taken to t pad pit.	Interim Containment	40 gal. produced water, 7 gal methanol.
12/28/81	81360936201	Sohio	y	GC 1, Skid 25, Not given	Antifreeze	45	Not given	Not Given	Entered 2-21-90 from old records.
5/16/83	83360113603	SOHIO	y	N Pad, Skid 54, header 41., 30' around flow lines.	Crude	45	Sorbents & injection and incineration at nsb.	Incinerated	Entered from old records 6/25/90.
12/27/83	83360136101	Wien Air	y	Prudhoe, Underground pressure drop.	Av fuel	45	Not given.	Not Given	Cause:"Broken line?". Entered from old record 7/30/90.
8/8/85	85360122001	Sohio	y	WSW skid 302,	Meg	45	16-6 bladed gravel up,		Loss of circulation.
12/16/85	85360135001	Sohio Alaska Petroleum Company	y	Pad C-12,	Diesel	45	Soaked up w/absorbents - cannot be done till tank*		*is moved.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/3/87	87360109302	Standard Alaska Production Com	y	GC II, Skid 481,	Crude-5/condensates-40	45	Contaminants scraped up	Interim Containment	
2/27/88	88360105801	Standard Alaska Production Com	y	Y Pad, Well 22,	Crude	45	Contaminants scraped up	Approved Landfill	
4/2/88	88360909301	ARCO Alaska, Inc.	y	DS 17, Well 5,	Hydrochloric acid 12%	45	Acid was neutralized & picked up	Interim Containment	
7/11/88	88360119305	ARCO Alaska, Inc.	y	DS 14, Well 8, Contained on gravel pad	Crude	45	Scooped up gravel	Approved Landfill	
8/6/88	88360121901	Standard Alaska Production Com	y	S-18, contained on pad	Diesel	45	Sorbents/loader revomed contaminated gravel	Multiple/see Comments	
8/16/88	88360122902	Standard Alaska Production Com	y	Vehicle Maintenance shop yard, contained on pad	Hydraulic oil	45	Absorbents/ scraped up gravel with bucket loader	Incineration/approved Landfill	hydraulic hose broke
1/4/89	89360100402	Halliburton Services	y	DS 18-9 wellhouse, location was actually 100 feet SW of wellhouse	Methanol	45	Picked up with frontend loader	Approved Landfill	Mixture of bentenite, borax and methanol
1/4/89	89360500404	ARCO Alaska, Inc.	y	DS 18, Well 9, northwest side of pad	Cement	45	Loader used to pick up material and snow	Approved Landfill	During a cement squeeze, a hose ruptured and material leaked onto pad Mixture of cement and water.
5/4/89	89360112403	BPXA	y	Well J-24, contained in snow and gravel on pad	Hydraulic oil	45	Pooled fluid soaked up with sorbents, snow and gravel scraped up with loader. sorbents to nsb incinerator, snow/gravel recycled.	Multiple	Hose broke underneath Frackmaster squeeze unit.
11/24/89	89360132802	ARCO Alaska, Inc.	y	DS 12, Well 10, Contained on pad	Crude	45	Super sucker removed liquid and gravel. liquid to pad 3 and gravel to nsb sowp.	Multiple	Faulty gate valve on tiger tank caused tank to overflow.
1/9/90	90360100901	BPXA	y/m	S-8, Contained on pad	Hydraulic oil	45	Sorbents laid down, bucket removed contaminates. sorbents to nsb incinerator, contaminates to a3w2 for thaw and recovery.	Multiple	Contractor Camco.
1/22/90	90360902201	BPXA	y	N Pad methanol tank, Contained on pad	Methanol	45	Loader removed ice/snow/gravel. material hauled to a3w2 for melting and use in ullage tank.	Recycled	Valve left partially open by unknown contractor.
1/26/90	90360102601	BPXA	y	W Pad Well 27, Contained in snow and gravel on pad	Hydraulic oil	45	Loader removed snow, gravel, absorbents used on hydraulic. snow/gravel to t pad for recovery, sorbents to nsb incinerator.	Multiple	
12/1/90	90360133501	Conoco	y	J Pad, 100 sq ft gravel pad	Hydraulic oil	45	Loader removed material. snow, ice, gravel put into temp storage tank and berm.	Interim Containment	Hose on pump ruptured. Final report had date of spill as 12-3-90.
3/23/91	91360108206	Camco Wireline	y	DS 9 Well 13, Gravel pad	Diesel	45	Absorbents used, loader removed snow/gravel. snow/gravel rinsed, used for cuttings fluids.	Recycled	Manifold broke off tritan pump, reservoir tank discharged.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/15/00	00399919701	ALASKA WEST EXPRESS INC.	ym	West Prudhoe Bay, C-PAD, ISO TANK,	Methyl Alcohol (Methanol)	45	Took Report, Case Closed 07-17-00		Human Error
2/26/01	01399905701	BPXA	y	East Prudhoe Bay, DRILLSITE 18,	Methyl Alcohol (Methanol)	45	Took Report, Case Closed 05-05-01		Valve Failure
11/14/04	04399931901	BPXA	y	COTU,	Ethylene Glycol (Antifreeze)	45	Phone Follow-up, Case Closed 01-13-05		Corrosion
9/16/05	05399925901	BPXA	y	Gathering Center 2 (GC-2),	Other	45	Took Report, Case Closed 09-19-05		Line Failure
6/3/06	06399915401	BPXA	y	Apex Gas Injection Well Site,	Drilling Muds	45	Took Report, Case Closed 06-05-06		Containment Overflow
02/01/07	07399903201	BPXA	y	Flow Station 3 (FS-3),	Produced Water	45	Took Report, Case Closed 02-05-07		Equipment Failure
3/30/85	85360108901	Sohio	y	Rig 2 Niakuk 5,	Crude	44	Contaminated snow & ice scraped up		
4/9/85	85360109903	Sohio	y	Niakuk #5,	Crude	44	Con. ice & gravel scraped up		
3/20/91	91360207901	BPXA	y	K Pad Well 10, Snow on pad	Seawater	44	Loader used. material taken to t pad lined pit.	Interim Containment	40 gal seawater, 4 gal diesel spilled when tank cover bolts missing.
4/8/91	91360209801	Conoco	y	J Pad, 8 x 8 snow/ice on gravel	Other	44	Loader removed material, took to cfp temp storage berm.	Interim Containment	42 gal water, 2 gal crude spilled from vac truck when valve froze, gasket blew and water overflowed catch basin with crude in it.
4/21/96	96399911201	ARCO	y	Flow Station 2 (FS-2),	Crude	44	Took Report, Final Report 05-11-96		Corrosion
3/9/99	99399906802	ARCO ALASKA	y	Drill Site 7,	Crude	44	Field Visit/s, Case Closed 02-29-00		Corrosion
3/27/06	06399908602	BPXA	y	Lisburne Production Center (LPC),	Diesel	43	Phone Follow-up, Final Report 05-30-06		Human Error
2/18/81	81360104902	Sohio	y	GC 3, Skid 25, Prudhoe, Not given.	Crude	42	Not given.	Not Given	Entered 9-26-89 from old records.
2/20/81	81360105101	Sohio	y	GC 1 between Skid 5 and Skid 40, Not given.	Crude	42	Not given.	Not Given	Entered 9-27-89 from old records. Condensate and crude.
3/3/81	81360106202	ARCO Alaska, Inc.	m	Mud Plant, Prudhoe, Contained on pad	Diesel	42	Vacuum and pads used. liquid injected at pad 3, pads burned.	Multiple	Entered 9-27-89 from old records. Arctic pak fuel is insulating material between annuluses, about 80% diesel by volume.
5/30/81	81360115003	Sohio	y	Mobile tract well MPC 33-11-12, Prudhoe, Not given.	Crude	42	Not given.	Not Given	Entered 10-26-89 from old records. Mixture crude/diesel. Follow up 6-25-81.
8/10/81	81360122201	Sohio	y	N Pad, Prudhoe, Not given.	Diesel	42	Not given.	Not Given	Entered 10-31-89 from old records. Follow up 9-2 and 10-5-81.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/18/81	81360132201	ARCO Alaska, Inc.	m	DS B Well 3, 10 ft on drill pad	Crude	42	Vac truck and absorbents used. material/pads incinerated at kuparuk.	Incinerated	Entered 2-16-90 from old records. Vac truck operator spilled while disconnecting vac hose.
12/22/81	81360135602	ARCO Alaska, Inc.	y	DS 12 Well 14, 10 ft diameter on gravel pad	Crude	42	Snow/gravel picked up, placed in reserve pit at drill site. crude will be vacuumed off.	Approved Landfill	Entered 2-21-90 from old records.
8/22/83	83360123402	ARCO Alaska, Inc.	y	DS 13. Prudhoe, None, gravel pad.	Crude	42	Removed gravel.	Unknown	Entered from old records 7/5/90.
5/28/85	85360114804	ARCO Alaska, Inc.	y	150 yds w. of Z Pad,	Crude	42	Removed gravel, vac truck, absorbent pads	Subsurface Injection	
11/24/85	85360132802	ARCO Alaska, Inc.	y	NGI Blowdon Pit, Prudhoe,	Ngls	42	Ngls and contaminated snow scraped up		
4/22/86	86360111201	Sohio Alaska Petroleum Company	m	None - contained on pad,	Crude	42	Scraped up contaminants	Interim Containment	
6/29/86	86360118001	Sohio Alaska Petroleum Company	y	B-24,	Diesel	42	Contaminated gravel scraped up	Interim Containment	
8/10/86	86360122202	Standard Alaska Production Com	y	GC-1, Skid 5,	Crude	42	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	
8/10/86	86360122203	ARCO Alaska, Inc.	y	DS L2, Well 3,	Crude	42	Soaked up w/sorbents	Incinerated	
8/23/86	86360123501	Standard Alaska Production Com	y	GC-II, Near Skid 21,	Light oil	42	Vacuumed-soaked up w/sorbents-cont.gravel scraped	Multiple/see Comments	Sorbents incinerated-liquid recycled-gravel to J pad of oil recovery
8/25/86	86360123702	Standard Alaska Production Com	y	GC-II, Skid 25,	Crude	42	Contaminated gravel scraped up	Taken To F-pad For Recovery	Cause: Shut down for maintenance work.
9/8/86	86360125102	Kodiak Oilfield Haulers	y	SAPC F Pad,	Crude	42	Soaked up w/sorbents-contaminated gravel scraped u	Left With Sapc For Disposal	
9/29/86	86360127202	ARCO Alaska, Inc.	y	DS L1,	Crude	42	Sorbents-snow scraped up-residue graded into pad	Multiple/see Comments	Sorbents/snow taken to NSB-Residue graded into pad
11/26/86	86360933301	ARCO Alaska, Inc.	y	DS 12,	Glycol	42	Contaminated snow scraped up	Interim Containment	
1/11/87	87360101101	Standard Alaska Production Com	y	GC-3, Skid 40,	Crude	42	Soaked up w/sorbents-contaminants scraped up	Incineration/approved Landfill	Spilled during line repair.
3/8/87	87360106701	ARCO Alaska, Inc.	y	L 3 Pad,	Diesel	42	Contaminants scraped up	Recycled	
4/15/87	87360110501	ARCO Alaska, Inc.	y	Lisburne Production Center,	Hydraulic oil	42	Contaminants scraped up	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/28/87	87360114801	ARCO Alaska, Inc.	y	DS 1, Well 3, Area around and onto building	Crude	42	Contaminants scraped up	Subsurface Injection	
6/5/87	87360115601	ARCO Alaska, Inc.	y	DS 16,	Diesel	42	Soaked up with sorbents	Incinerated	
8/1/87	87360121302	ARCO Alaska, Inc.	y	DS 11, 4' X 12' area of stained gravel	Crude	42	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated/gravel Padspre	
8/17/87	87360122901	Standard Alaska Production Com	y	R-Pad, Skid 54,	Crude	42	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-gravel Washed	
8/24/87	87360923601	ARCO Alaska, Inc.	y	Lisburne L-3,	Acid	42	Acid neutralized - remainder graded into pad	Padspred	
2/11/88	88360104201	ARCO Alaska, Inc.	y	LPC,	Crude	42	Contaminants scraped up	Approved Landfill	
4/9/88	88360110002	ARCO Alaska, Inc.	m	Common Line 9-A,	Crude	42	Contaminants scraped up	Interim Containment	
4/9/88	88360110001	ARCO Alaska, Inc.	y	FS 1,	Crude	42	Contaminants scraped up	Interim Containment	Overfilled vac truck.
6/13/88	88360116503	ARCO Alaska, Inc.	y	Pipeline Road betw DS2 & SIP, Pipeline Road between DS 2 and SIP	Unknown	42	Soaked up w/sorbents	Incinerated	Oiltype: water inside sump
6/16/88	88360116705	ARCO Alaska, Inc.	y	Reserve Pit, contained on pad	Unknown	42	Contained and vacuumed	Approved Landfill	
6/19/88	88360117103	ARCO Alaska, Inc.	m	Well 6, Well 6	Crude	42	Vacuum truck;loader picked up contaminated snow	Approved Landfill	
9/1/88	88360124502	ARCO Alaska, Inc.	y	DS 6, Well 9, contained on pad	Crude	42	Absorbents used	Incinerated	leaked from hose when valve opened before connected properly
9/6/88	88360125002	ARCO Alaska, Inc.	y	Hot water plant e. of airstrip, adjacent tundra pond	Bentenite/ mud	42	Pumped pond to remove mud in suspension	Subsurface Injection	Mud washed out into pond.
9/12/88	88360125602	ARCO Alaska, Inc.	y	DS 4, Well 2, contained on pad	Crude	42	Absorbents, gravel graded into pad	Incinerated	
9/16/88	88360126003	ARCO Alaska, Inc.	y	DS 12, Well 19, contained on pad	Borax, bentonite, water	42	Hand shovels to remove contaminated gravel	Approved Landfill	
9/27/88	88360127101	ARCO Alaska, Inc.	y	Seawater treatment plant, on gravel pad	Acid	42	Picked up gravel and fluids	Approved Landfill	Kuparuk River Unit Oilfield plant/seawater w/hydrocarbon trace
10/27/88	88360130101	ARCO Alaska, Inc.	y	DS 11, Well 1, contained on pad	Methanol	42	Loader removed snow and material	Approved Landfill	vac truck overfilled during squeeze
10/29/88	88360130302	ARCO Alaska, Inc.	y	DS 5, Well 11, contained on pad	Seawater	42	Vac truck for material, shovels for snow, gravel	Approved Landfill	tank overfilled during cleanup of squeeze operation
11/17/88	88360132202	ARCO Alaska, Inc.	y	Hot Water Plant, e. of airport, contained on pad	99% water, 1% neut. acid	42	Snow picked up with loader	Approved Landfill	tank inadvertantly drained

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/20/88	88360132501	ARCO Alaska, Inc.	y	DS 12, Well 2, contained on pad	Crude	42	Snow picked up with shovels	Recycled	relief valve opened during pumpdown
12/17/88	88360135205	ARCO Alaska, Inc.	y	DS 9, Well 23, contained on pad	Salt water	42	Snow cleaned up by loader	Approved Landfill	cellar water overflow during well work operations
1/8/89	89360100804	ARCO Alaska, Inc.	y	DS 3, Well 28, around well head cellar	Crude	42	Pumped out into slop tank/contaminated snow was removed. snow reused in well work, gravel taken to nsb.	Multiple/see Disposal	cellar spillage from well workover/changing valved & lines on welltree
1/12/89	89360101202	ARCO Alaska, Inc.	y	DS 30, contained on snow covered gravel pad	Crude	42	Mixed with snow and picked up,taken to snow melter	Recycled	flowback line not tightened after a coiled tubing cleanout
1/12/89	89360101203	ARCO Alaska, Inc.	y	DS 15, Well 22, contained in snow on gravel pad	Crude	42	Loader scraped up the contaminated snow	Recycled	vac truck overfilled, crude leaked out vent pipe when pressurized
1/15/89	89360101502	ARCO Alaska, Inc.	y	DS 3, Well 26, on snow covered gravel pad	Methanol	42	Vac truck sucked up fluid and contaminated snow	Recycled	methanol tank on pump unit overflowed
1/18/89	89360101803	ARCO Alaska, Inc.	y	DS 4, Well 15, 10 x 30 area gravel pad	Seawater	42	Loader removed material and contaminated snow. melted and taken to pad 3	Approved Landfill	Valve left open during squeeze operation.
2/12/89	89360104306	ARCO Alaska, Inc.	y	DS 14, Well 39, contained on pad	Crude	42	Contaminated snow scraped up by loader	Approved Landfill	valve blocked open by foreign material. Spill when hose disconnected
3/30/89	89360108901	ARCO Alaska, Inc.	y	DS 1, Well 19, None. All contained on pad. Area 10 x 30 feet.	Condensate	42	Loader used to remove snow. after melting, will be taken to pad 3 for disposal.	Approved Landfill	Ice blocked valve open. When thawed, fluid overflowed drip pan.
4/2/89	89360109201	ARCO Alaska, Inc.	y	J Pad, Contained on Pad	Methanol	42	Vac truck used to pick up fluids. loader used for contaminated snow. recycled at ds 11 in wireline operation.	Recycled	During delivery of material, camlock gasket blew and material discharged onto pad.
4/5/89	89360109502	ARCO Alaska, Inc.	y	J Pad, Contained in lined pit	Corrosion inhibitor	42	Supersucker picked up contaminated snow. melted by addition of warm crude, recycled at fs 1	Recycled	C1-15 Corrosion inhibitor released when incorrect valve opened while filling.
4/12/89	89360110201	ARCO Alaska, Inc.	y	Spine Road across from VECO camp, contained on hardpack snow on shoulder of road.	Diesel	42	Hand shovels used, snow bagged, taken to fs1 to re-cycle	Recycled	Tanker drove onto shoulder, tipped, splashed out of vent.
4/27/89	89360111704	ARCO Alaska, Inc.	y	DS L2, Well 24, contained on snow	Crude	42	Loader and absorbents. sorbents to nsb incinerator, snow and material to pad 3 for injection	Multiple	Mixture 5% crude, 95% seawater spilled during drilling when gas bubble caused pressure release into cellar and outside of cellar.
5/4/89	89360112402	ARCO Alaska, Inc.	y	Pad 3, contained on pad atop snow	Crude	42	Absorbents used, snow removed by loader. pad disposed of at nsb incinerator, snow at pad 3.	Multiple	Faulty gasket at hose connection caused leak.
5/18/89	89360113801	ARCO Alaska, Inc.	y	FS 1 behind control room, contained on pad	Crude	42	Absorbents, super sucker used. absorbents to nsb incinerator, fluids to pad 3 for disposal.	Multiple	Mixture 70% water, 30% crude spilled when wrong valve left open on super sucker truck.
6/14/89	89360116503	BPXA	y	F Pad, Well 16, contained on pad	Crude	42	Absorbents used, gravel removed by loader. sorbents to incinerator, gravel to a3w2	Multiple	Coil tubing and valve failure.
6/29/89	89360118002	ARCO Alaska, Inc.	y	DS 13, Well 38 LLD tanker, contained on pad	Crude	42	Absorbents used, taken to nsb incinerator. gravel removed, taken to nsb sowp.	Multiple	Overfilled 500 barrel tank.
7/13/89	89360119403	ARCO Alaska, Inc.	y	DS 14, Well 39, gravel	Crude	42	Gravel removed by loader, taken to nsb sowp	Approved Landfill	Line on pump unit was not blinded. Operator primed pump through suction and crude spilled from open line.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/21/89	89360123304	BPXA	y	GC 3, contained on pad	Other	42	Material, gravel removed by loader, taken to santa fe pad.	Approved Landfill	Oily water released due to improper hose connections.
10/10/89	89360128302	ARCO Alaska, Inc.	y	DS 3, Well 20, Contained on gravel pad.	Seawater	42	Super sucker used, gravel taken to nsb sowp.	Approved Landfill	Seawater and fresh water with trace of gel.
10/20/89	89360129302	ARCO Alaska, Inc.	y	DS 16, Well 17, Contained on pad	Crude	42	Absorbents used, super sucker. absorbents to burnable dumpster, gravel to nsb sowp.	Multiple	Bleed off needle valve left open.
10/25/89	89360129802	Dowell Schlumberger	y	DS 5, Contained on pad	Diesel	42	Absorbents used, gravel shoveled. sorbents to nsb incinerator, gravel to landfill.	Multiple	Faulty valve on blender tub caused overflow.
11/7/89	89360131102	ARCO Alaska, Inc.	y	DS 6 Well 7, Contained on pad.	Crude	42	Absorbents, loader, super sucker used. sorbents to nsb incinerator, material to nsb sowp.	Incineration/approved Landfill	Vent discharge from compressor.
11/13/89	89360131703	ARCO Alaska, Inc.	y	DS 14 Well 4, Contained on pad	Crude	42	Gravel and crude removed with super sucker. taken to nsb sowp.	Approved Landfill	Crude in vac truck foamed, causing vent discharge.
12/1/89	89360133503	ARCO Alaska, Inc.	y	PBOC, auto shop door #7, Contained on pad	Engine lube oil	42	Absorbents used on free liquid, gravel and snow removed. sorbents to burnable dumpster, snow, gravel to nsb sowp.	Incineration/approved Landfill	Sight guage froze causing tank to be overfilled.
1/26/90	90360202601	ARCO Alaska, Inc.	y	DS 5 Well 4, Contained on pad	Other	42	Loader removed snow/frozen water. melted. injected at pad 3.	Subsurface Injection	Slickwater (l bbl fresh water, 1/2 lb biozan gel) spilled when camlock hose vibrated loose.
2/2/90	90360103302	ARCO Alaska, Inc.	y	Point McIntyre Well 5, Contained on pad	Diesel	42	Absorbents used, shovels removed frozen material, snow. sorbents to nsb incinerator, snow melted and taken to pad 3 for injection.	Multiple	Camlock vibrated loose releasing 75% diesel, 25% crude.
2/5/90	90360903601	ARCO Alaska, Inc.	y	DS 16 Well 9, Contained on gravel pad	Methanol	42	Super sucker used, taken to pad 3 for injection.	Subsurface Injection	Belly tank overfilled.
2/27/90	90360105803	ARCO Alaska, Inc.	y	DS 2 Well 27, Pad and reserve pit snow	Crude	42	Loader removed snow. snow melted, taken to pad 3 for injection.	Subsurface Injection	Mist on reserve pit will be inspected at breakup.
3/7/90	90360206601	ARCO Alaska, Inc.	y	DS 9 Well 11, Nabors 2ES Rig, Contained on pad	Seawater	42	Snow and frozen seawater removed, bagged, taken to nsb owp.	Approved Landfill	Cuttings bucket not in place to catch flow.
3/21/90	90360208001	ARCO Alaska, Inc.	y	DS 1 Well 10, Contained on pad	Seawater	42	Frozen seawater removed, injected at pad 3.	Subsurface Injection	
4/20/90	90360511001	ARCO Alaska, Inc.	y	DS 7 Well 10, Contained on pad	Cement	42	Cement removed, put in tank return container, pad 3 sw disposal pit.	Approved Landfill	Hose came loose when filling returns tank.
6/2/90	90360915301	ARCO Alaska, Inc.	y	DS 5, Contained on pad	Methanol	42	Gravel removed by supersucker, taken to pad 3.	Approved Landfill	Mechanical error while pumping methanol down well for freeze protection.
6/8/90	90360515901	ARCO Alaska, Inc.	m	DS 36 Well 6, None, spill contained on gravel pad.	Drilling muds	42	Mud on rig mats cleaned up with shovels & sorbents. mud in between mats will be cleaned after the rig moves.	Recycled	At well #6 an air bubble caused a kick which sprayed mud on rig mat.
6/10/90	90360216101	Halliburton Services	y	DS 12 Well 4A, Gravel	Gelled water	42	Arco used super sucker. some gravel removed. arco disposed of fluid at pad 3.	Approved Landfill	Blender tub overflowed, spilled gelled water.
6/12/90	90360116302	BPXA	y	Pad W skid 502, None evident at present.	Crude	42	Flow lines to be steam cleaned, gravel shoveled into wheelbarrows and taken to t pad, water to gc injection.	Multiple	Check valve failed while bleeding donw gas lift system.
7/29/90	90360121001	ARCO Alaska, Inc.	y	DS 7 Well 34, Contained on pad	Hydraulic oil	42	Absorbents used, gravel removed. pads to incinerator, gravel to pad 3.	Incineration/approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/2/90	90360221401	Arctic Coiled Tubing	y	DS 15, Gravel pad	Gelled water	42	Loader excavated gravel, took to pad 3.	Approved Landfill	Leaking tank spilled gelled water (40 gal gel to 1,000 gal water).
8/18/90	90360123003	ARCO Alaska, Inc.	m	E. side Shirukak Lake, 100 sq ft. Reached tundra and water	Diesel	42	No sheen noted. sample taken for betx. drum set upright and elevated for later removal. no cleanup or disposal given.	Not Given	Drum found with hole in it. 80% empty, about 10 gal left in. Waters of Polygon lake or pond affected.
10/7/90	90360228001	ARCO Alaska, Inc.	y	DS 11, Well 28, 10 x 12 gravel pad	Seawater	42	Super sucker used, hand shovels removed gravel. liquids pad 3 injection, gravel pad 3 swp.	Multiple	
10/27/90	90360230001	ARCO Alaska, Inc.	y	FS 2, Contained on ice/snow on pad	Produced water	42	Loader removed material, taken to pad 3 sw pit.	Approved Landfill	Power failure caused over pressure, blew seals.
11/16/90	90360132001	ARCO Alaska, Inc.	y	DS L5 Well 9, Gravel under building	Diesel	42	Absorbents used, loader removed snow/gravel. sorbents to nsb incin., gravel to pad 3 sowp.	Incineration/approved Landfill	Original cleanup est. 20 gal. Would cleanup remainder when bldg moved.
11/21/90	90360232501	Alaska Petroleum Contractors	y	SIP loading facilities, Contained on snow/gravel 3 x 20	Seawater	42	Loader/bucket removed material. placed in open tank, melted, recycled.	Recycled	
12/4/90	90360233803	ARCO Alaska, Inc.	y	Pad 3, Contained on snow	Produced water	42	Loader, rake removed snow, some gravel. taken to pad 3.	Approved Landfill	1 gal crude, 41 gal produced water.
12/8/90	90360234202	VECO	y	DS 12, Well 5, Ice/snow	Seawater	42	Scraped up, put in cuttings box and taken to pad 3.	Approved Landfill	
12/26/90	90360236001	ARCO Alaska, Inc.	y	DS 15, Not given	Other	42	No cleanup or disposal given.	Unknown	Material septic water. Initial report indicates there will be no final because the spill is non-hazardous material.
1/28/91	91360102801	ARCO Alaska, Inc.	y	DS 2 between Well 13 & 14, Contained on pad	Crude	42	Loader used, snow put in open top tank, melted, recycled in system from which it came.	Recycled	Loader removed snow severed line.
2/12/91	91360204302	Halliburton Services	y	LGI 4, 2 sq yds	Gelled water	42	Arco cleaned up with loader, took to pad 3.	Approved Landfill	Gel flowed out of overfill line, froze on impact.
2/16/91	91360904701	ARCO Alaska, Inc.	y	DS 1, 90 sq ft snow on gravel	Seawater	42	Hand shovels, vac truck used. snow injected pad 3.	Subsurface Injection	Mixture seawater, methanol, water.
2/28/91	91360905901	ARCO Alaska, Inc.	y	Hot Water Plant, 12 x 50 snow on gravel	Antifreeze	42	Loader removed snow, melted, injected pad 3.	Subsurface Injection	
3/24/91	91360908302	ARCO Alaska, Inc.	y	DS 12 Well 3, 10 x 15 snow on pad	Methanol	42	Loader removed snow. snow melted, reused as freeze protect.	Recycled	
3/29/91	91360208801	BPXA	y	K Pad Well 10, Contained on pad	Produced water	42	Shovels, loader removed material. 90% returned to vac unit, 10% to line t pad for summer removal.	Multiple	
3/30/91	91360208902	ARCO Alaska, Inc.	y	DS 12 Well 9, Snow on gravel	Seawater	42	Loader used. material melted, injected pad 3.	Subsurface Injection	
4/1/91	91360209101	Alaska Petroleum Contractors	y	DS 6 Well 4, 15 x 15 snow/ice	Gelled water	42	Super sucker, shovels used. injected pad 3.	Subsurface Injection	Overfilled tank due to inattention. Product 95% freshwater gel, 5% contaminated cement.
4/1/91	91360209102	BPXA	y	Z Pad Well 32, Contained on pad	Seawater	42	Shovels, loader used. material taken to t pad lined pit for summer recovery.	Interim Containment	
5/1/91	91360512101	Conoco	y	L Pad near NW edge reserve pit, 12' diam. gravel	Drilling muds	42	Loader pushed back into reserve pit.	Interim Containment	Cuttings fell off truck onto pad. Mud is water and bentonite gel. 9 lb. per gallon spud mud.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/24/91	91360117502	ARCO Alaska, Inc.	y	DS 14 Well 35, Contained on pad	Crude	42	Absorbents, super used. gravel to pad 3 swp, sorbents to nsb incin.	Incineration/approved Landfill	Tiger tank hatch popped open.
7/17/91	91360919801	Alaska Petroleum Contractors	y	Hot Water Plant, Lined dike	Antifreeze	42	Pumped out and reused.	Recycled	Overfilled heater.
8/14/91	91730122601	BPXA	y	R Pad Skid 54, Contained on pad	Crude	42	Absorbent used immediately. material will be put into bags, loader will scrape up remaining contaminates. sorbents to nsb incin.l, gravel to pad 3 owp	Incineration/approved Landfill	Valve to slop oil tank left open allowing crude and water to overflow vent. 858 gal. prod. water, 42 gal crude. Total 900 gal.
8/19/91	91730923101	Alaska Petroleum Contractors	y	Hot Water Plant, 15 x 20 gravel pad	Other	42	Loader removed 1/2 cy gravel. taken to pad 3 sowp.	Approved Landfill	2 lb XED polymer gel in 1 bbl fresh water.
9/1/91	91730924401	ARCO Alaska, Inc.	y	CGF Module, Contained on pad	Antifreeze	42	Absorbents, shovels used. pads to nsb incin., gravel to be tested.	Multiple	Leak in heat trace line spilled Ucartherm.
9/30/91	91730527301	Pool Arctic Alaska	m	Rig 7, 2 x 8 ft gravel	Drilling muds	42	Forklift, shovels removed mud. run through ball mill for recycle.	Recycled	While cleaning cellar, mud seeped between cracks onto pad.
11/12/91	91730231601	Halliburton Services	y	DS L5 75 ft N of Well 12, 10 sq ft ice	Gelled water	42	Chipped up ice, injected arco pad 3.	Subsurface Injection	
11/22/91	91730132601	Dowell Schlumberger	y	BP Exploration N Pad Well 10, 30 x 50 snow/ice	Diesel	42	Vac truck, loader used. snow/ice taken to pad 3.	Approved Landfill	42 gal arctic grade diesel, 42 gal clean water, 126 gal gelled water for total volume of 210 gal. Also reported by BP with cause as "use of fluids to extinguish fire in blending tube."
2/16/92	92730204702	Peak Oilfield Services	y	SIP, Snow/ice on pad	Seawater	42	Loader scraped up, incinerated nsb.	Incinerated	
3/29/92	92730208901	ARCO Alaska Inc.	y	DS 13 manifold, Gravel pad	Produced water	42	Loader used, taken to pad 3.	Approved Landfill	
12/16/95	95399935002	MI DRILLING FLUIDS	y	West Prudhoe Bay, R PAD,	Drilling Muds	42	Phone Follow-up, Case Closed 01-00-00		Other
1/14/96	96399901402	ARCO	y	East Prudhoe Bay, PAD 3,	Produced Water	42	Took Report, Case Closed 01-00-00		Containment Overflow
6/17/96	96399916902	BPXA	y	West Prudhoe Bay, G PAD WELL 3,	Crude	42	Took Report, Case Closed 01-00-00		Other
12/16/96	96399935101	ARCO	y	East Prudhoe Bay, FS 3,	Produced Water	42	Field Visit/s, Case Closed 01-27-97		Other
1/27/97	97399902701	BPXA	y	West Prudhoe Bay, Well Pad M,	Methyl Alcohol (Methanol)	42	Took Report, Case Closed 11-17-97		Valve Failure
3/15/97	97399907403	ARCO	y	East Prudhoe Bay, FS 2,	Other	42	Took Report, Case Closed 01-00-00		Corrosion
3/29/97	97399908802	BPXA	ym	West North Slope, PUT RIVER,	Produced Water	42	Took Report, Case Closed 01-00-00		Unknown
5/27/97	97399914701	ARCO	y	EAST NORTH SLOPE, ARCO DS 16.,	Crude	42	Phone Follow-up, Case Closed 05-27-97		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/16/97	97399928901	ARCO	y	East Prudhoe Bay, ARCO POINT MAC 2.,	Crude	42	Took Report, Case Closed 01-00-00		Leak
1/12/98	98399901201	ARCO	ym	EAST NORTH SLOPE,,	Crude	42	Took Report, Case Closed 01-00-00		Leak
2/28/98	98399905901	B.P.	y	West North Slope, B.P. Well Pad Q.,	Other	42	Took Report, Case Closed 01-00-00		Leak
6/6/99	99399915701	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, DRILLSITE 5,	Biocide	42	Took Report, Case Closed 06-06-99		Other
8/9/99	99399922102	NABORS	ym	East Prudhoe Bay, DS-15, WELL 15-33 A,	Drilling Muds	42	Took Report, Case Closed 08-09-99		Line Failure
11/5/99	99399930901	BPXA	ym	West Prudhoe Bay, GC-3 PAD BETWEEN SK-515 & SK 484,	Produced Water	42	Took Report, Case Closed 11-08-99		Seal Failure
1/9/00	00399900901	AK PETROLEUM CONTRACT/BPX	y	West Prudhoe Bay, Well Pad X-24,	Seawater	42	Took Report, Case Closed 01-10-00		Human Error
2/6/00	00399903701	NABORS DRILLING/ARCO ALASKA	ym	East Prudhoe Bay, ARCO DRILL SITE 17,NABORS 9ES,	Drilling Muds	42	Took Report, Case Closed 02-08-00		External Factors
2/10/00	00399904101	ARCO ALASKA	y	EAST OPERATING AREA PRUDHOE BAY, GRIND & INJECT FA,	Seawater	42	Took Report, Case Closed 02-11-00		Valve Failure
4/7/00	00399909801	PEAK OILFIELD/ARCO	y	East Prudhoe Bay, ARCO FIRE TRAINING GROUNDS,	Seawater	42	Took Report, Case Closed 04-07-00		Valve Failure
4/8/00	00399909901	HALLIBURTON ENERGY SERVICES	ym	East Prudhoe Bay, 2805 SPINE ROAD,	Diesel	42	Took Report, Case Closed 08-01-00		Equipment Failure
4/16/00	00399910703	VECO INC./PHILLIPS ALASKA	y	East Prudhoe Bay, PAD-10 METHANOL LOADING DOCK,	Methyl Alcohol (Methanol)	42	Took Report, Case Closed 04-16-00		Overfill
11/14/00	00399931901	SCHLUMBERGER/BP EXPLORATION	y	West Prudhoe Bay, PAD P WELL-20,	Methyl Alcohol (Methanol)	42	Took Report, Case Closed 11-24-00		Human Error
6/11/03	03399916201	BPXA	y	Drill Site 12,	Seawater	42	Took Report, Final Report 06-24-03		Overfill
1/4/04	04399900402	NABORS ALASKA DRILLING	y	West Gas Injection,	Diesel	42	Field Visit/s, Final Report 01-21-04		Human Error
1/5/04	04399900502	BPXA	y	Well Pad S,	Drilling Muds	42	Field Visit/s, Case Closed 01-14-04		Overfill
12/6/04	04399934103	BPXA	y	Well Pad L, Nabors Well Control Investigation	Drilling Muds	42	Field Visit/s, Case Closed 10-01-05		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/6/05	05399927902	ASRC Energy Ser (formerly APC)	y	East Prudhoe Bay, DRILLSITE 9,	Corrosion Inhibitor	42	Field Visit/s, Case Closed 10-25-05		Equipment Failure
4/18/06	06399910801	BPXA	y	Northern Gas Injection (NGI),	Other	42	Phone Follow-up, Case Closed 04-26-06		Seal Failure
01/15/07	07399901501	ASRC Energy Ser (formerly APC)	y	Well Pad Z,	Hydrochloric Acid	42	Took Report, Case Closed 01-22-07		Crack
1/8/06	06399900801	BPXA	y	Drill Site 4,	Hydraulic Oil	41	Phone Follow-up, Case Closed 01-14-06		Equipment Failure
2/18/81	81360104904	Sohio	y	GC 3, Not given.	Crude	40	Not given.	Not Given	Entered 9-27-89 from old records. Follow up 3-2-81.
4/6/81	81360109601	ARCO Alaska, Inc.	y	East Dock Pad, Gravel pad	Corrosion inhibitor	40	Most absorbed in snow, amt that was not was picked up with pads. snow taken to pingut pit, pads to nsb incinerator.	Incineration/approved Landfill	Entered 10-24-89 from old records. Product E-10 contains toluene. Probably less than 5 gal. spilled, but max reported.
6/16/81	81360116701	ARCO Alaska, Inc.	y	FS 1, module 4920, Containment pit	Crude	40	Oily water removed, put into ow disposal well. gravel removed and spread on road per oiling for dust control.	Subsurface Injection	Entered 10-27-89 from old records. Follow up 6-26-81. Crude and condensate. Heat tracing on steam trap in flare drain system failed. Liquids froze, cracking trap body.
6/4/82	82360115501	ARCO Alaska, Inc.	y	Crude Oil Topping Unit, Prudhoe Bay, Arctic heating fuel remained on gravel pad only.	Fuel oil	40	Loader removed contaminated gravel.	Approved Landfill	Nozzle malfunction. Automatic shut-off valve on nozzle failed while filling tank. Entered from old records 4-28-90.
1/5/83	83360100501	ARCO Alaska, Inc.	y	DS 2, Well 1, PBF, Inside well house.	Diesel	40	Some ou taken to landfill.	Approved Landfill	Entered 5/7/90 from old records. Diesel mixed with crude. Cause: Frozen needle valve.
3/31/83	83360109002	SOHIO	y	H Pad Well 20, Unknown	Engine lube oil	40	Contaminated snow & gravel removed.	Not Given	Cause: Engine failure. Type: Motor oil & diesel mix.Entered from old records 6/25/90.
4/18/83	83360110801	SOHIO	y	G Pad Access Rd., Unknown	Engine lube oil	40	Contaminants removed.	Other	Disposal: Hauled to service city disposal. Entered from old records 6/25/90.
5/13/83	83360113301	SOHIO	y	Stores Yard, Contained on pad.	Antifreeze	40	Contaminated snow removed.	Not Given	Type: Triethyl-glycol. Cause: Punctured barrels. Entered from old records 6/25/90.
5/21/83	83360114102	SOHIO	y	Well X 11, Prudhoe Bay, Confined to pad.	Crude	40	Snow scraped up.removed.	Other	Disposal: Snow into X Pad Reserve pit.Entered from old records 6/25/90.
6/9/83	83360116003	SOHIO	y	Spine Rd. near Frontier, 30' by 70' area.	Diesel	40	Will be burned after dry. sorbents proved ineffective.	Incinerated	Entered from old records 6/26/90.
7/5/83	83360118603	SOHIO	y	GC2, Skid 4A, PBF, None, contained on pad.	Crude	40	Sorbents, gravel scrape.	Not Given	Initial report only. Entered from old records 6/26/90.
8/12/83	83360122402	ARCO Alaska, Inc.	y	DS 13, Prudhoe, None, gravel pad.	Crude	40	Sorbents, gravel removed.	Unknown	Entered from old records 7/5/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/9/83	83360131304	SOHIO	y	GC-2 Entrance & Skid 8A, Unknown	Crude	40	Sorbents, scraped w/loader.	Not Given	Type: Crude/Diesel. Caused by piped heated/condesaate thaw. Entered from old records 7/26/90.
2/1/85	85360103203	Sohio	y	GC-3 Skid 41,	Crude	40	Picked up with shovels		
2/18/85	85360104902	Sohio	y	GC-3 Skid 40,	Diesel	40	Con. materials scraped up		
3/10/85	85360106901	Sohio	y	GC-1 Skid 19,	Glycol	40	Floor dry, con. snow scraped up		
4/1/85	85360109101	Sohio	y	E-4,	Crude	40	Contaminated snow & ice scraped up		
8/8/85	85360122002	Sohio	y	GC-1 skid 494, LTS room,	Glycol	40	Contam. gravel scraped up		
9/30/85	85360127302	SOHIO Alaska Petroleum Company	y	GC-1, West Side Water Flood,	Glycol	40	Vacuum truck sucked up meg/marooka scraped up grav		
11/13/85	85360131701	SOHIO Alaska Petroleum Company	y	X-Pad,	Diesel	40	Soaked up w/absorbent pads/scraped up contaminants		
12/17/85	85360135101	ARCO Alaska, Inc.	y	L-2 Pad, Lisburne,	Crude	40	Spill was marked/will be cleaned up during cold*	Not Given	*ambient temperatures when all hydrocarbon will solidify.
3/21/86	86360908001	Sohio Alaska Petroleum Company	y	Skid #20, GC-2,	Teg and condensat e	40	Mixed with snow and scraped up	Interim Containment	
5/3/86	86360112302	Sohio Alaska Petroleum Company	y	R-9,	Diesel	40	Scraped up contaminated snow/gravel	Interim Containment	
6/7/86	86360115802	Sohio Alaska Petroleum Company	y	B-Pad, skid 54 vicinity,	Drilling oil	40	Soaked up w/sorbents-contaminated gravel scraped	Incineration/a pproved Landfill	
7/6/86	86360118702	Sohio Alaska Petroleum Company	y	F-Pad,	Crude	40	Scraped up with grader and bucket loader	Interim Containment	
11/18/86	86360132201	Standard Alaska Production Com	y	R Pad Skid 54,	Crude	40	Soaked w/sorbents-contaminated snow scraped up	Incineration/a pproved Landfill	
12/13/86	86360134701	Standard Alaska Production Com	m	JX-2,	Diesel	40	Scraped up contaminants	Interim Containment	
3/18/87	87360107702	ARCO Alaska, Inc.	y	DS 16,	Hydraulic oil	40	Soaked up with sorbents	Incinerated	
7/18/87	87360919901	Standard Alaska Production Com	y	GC-1, Skid 494, Pad under skid building	Glycol	40	Contaminants scraped up	Interim Containment	
7/30/87	87360121102	ARCO Alaska, Inc.	y	Hot Water Plant,	Crude/wat er	40	Vacuumed up liquid/soaked up with sorbents	Liquid Recycled/sorb ents Incinerate	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/14/87	87360125701	Standard Alaska Production Com	y	GC-3 Deluge Pit Area, Area around Deluge pit	Crude & well returns	40	Vacuumed up liquid/contaminated gravel scraped up	Liquids Injected/conts. To Landfill	
9/16/87	87360125802	ARCO Alaska, Inc.	y	LGI Pad,	Diesel	40	Contaminated gravel scraped up	Padspred	
10/26/87	87360129902	ARCO Alaska, Inc.	y	CCP,	Lube oil	40	Contaminated gravel scraped up	Approved Landfill	
11/17/87	87360132101	ARCO Alaska, Inc.	y	DS 17,	Soapy water/crud e	40	Contaminants scooped up	Interim Containment	
12/20/87	87360135401	Standard Alaska Production Com	y	Well E-28, Area around collection barrels	Diesel/cru de (85/15)	40	Contaminants scraped up	Approved Landfill	
1/8/88	88360100801	Standard Alaska Production Com	y	Wellhouse H-19,	Hydraulic oil	40	Contaminants scraped up	Incinerated	
2/7/88	88360903801	Standard Alaska Production Com	y	Access Road between U & N Pads,	Well stimulation fluid	40	Contaminants scraped up	Approved Landfill	
2/14/88	88360904501	Standard Alaska Production Com	y	Well 2-B,	Glycol	40	Contaminants scraped up	Approved Landfill	
3/1/88	88360106102	Standard Alaska Production Com	y	Well U-4I, Area around well house	Diesel	40	Contaminants scraped up	Approved Landfill	
4/2/88	88360109302	ARCO Alaska, Inc.	y	DS L2, Well 20, Area around leaking valve	Diesel	40	Soaked up with sorbents-contaminants scraped up	Sorbs Incin-contams To Pad 3	
4/8/88	88360109903	ARCO Alaska, Inc.	y	DS 3,	Crude	40	Contaminants scraped up	Interim Containment	
4/14/88	88360110501	Standard Alaska Production Com	y	F-24,	Methanol	40	Contaminants scraped up	Interim Containment	O ring failure.
5/1/88	88360912201	Standard Alaska Production Com	y	Y Pad Methonal Tanks,	Methanol	40	Contaminants scraped up	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/9/88	88360119107	Standard Alaska Production Com	y	B 9, contained on pad	Diesel	40	Contaminated gravel removed	Approved Landfill	iesel leaked from transport line during well facing
7/18/88	88360120002	ARCO Alaska, Inc.	y	DS 16, Well 6, contained on pad	Diesel and gelled water	40	Loader picked up contaminated gravel and materials		
7/18/88	88360120006	ARCO Alaska, Inc.	y	DS 16, Well 6, contained on pad	10% diesel/ gelled water	40	Picked up contaminated gravel		
8/27/88	88360124002	ARCO Alaska, Inc.	y	DS 6, Well 9, contained on pad	Con.cene nt/bentonit e-borax	40	Absorbents and loader	Multiple/see Disposal	valve on vacuum truck was left open allowing mixture to fall on ground
9/18/88	88360126201	ARCO Alaska, Inc.	y	DS 3, common line 16-17C, contained on pad	Crude	40	Vac truck and supersucker vac truck	Approved Landfill	Leak due to corrosion.
10/4/88	88360127802	ARCO Alaska, Inc.	y	DS 5, 20 square feet	Glycol	40	Absorbents/gravel picked up	Incineration/a pproved Landfill	hose disconnected
11/19/88	88360132403	SAPC Endicott	y	GC-1 Ullage Tank Hook-Up, contained in snow and gravel on pad	Crude	40	Snow/gravel scraped up with shovels and loader	Approved Landfill	failure of liner in tank hook-up timber beam
12/3/88	88360133802	SAPC Endicott	y	W-39, contained on pad	Crude	40	Absorbents, vacuum, shovels and loader used	Multiple/see Disposal	transfer hose vibrated loose during well work
12/4/88	88360133904	SAPC Endicott	y	W-20, contained on pad	Crude	40	Loader scraped up material	Recycled	over-ran barrel while bleeding off the lubricator
12/21/88	88360135604	ARCO Alaska, Inc.	y	DS 1, Well 19, contained on pad	9% cement, 91% seawater	40	Loader removed material and snow	Approved Landfill	during well workover disconnecting hose from tank material drained
12/22/88	88360135701	ARCO Alaska, Inc.	y	L 5, Well 21, contained on pad	Seawater	40	Loader removed material and contaminated snow	Approved Landfill	during well workover, tank overfilled
2/12/89	89360104307	BPXA	y	Well B 11, contained in snow drifts back of well house	Drilling muds	40	Snow removed with loader and shovels	Unknown	mud-acids escaped from rear of well house during well work
2/17/89	89360104802	ARCO Alaska, Inc.	y	DS 4, Well 3, contained on pad	Gelled water	40	Loader removed material and snow	Approved Landfill	Gelled water leaked out port plug during squeeze operation
3/30/89	89360108903	BPXA	y	Well N 7, None. Contained on pad.	Hydraulic oil	40	Contaminated snow scraped up with loader, taken to melter for recovery.	Recycled	Hydraulic hose failed on crane.
5/1/89	89360112101	ARCO Alaska, Inc.	y	Point McIntire, Well 4, contained in cellar and on snow pack	Diesel	40	Absorbents used and vacuum truck. after melting, taken to pad 3	Approved Landfill	During drilling, material overflowed cellar.
7/20/89	89360120102	ARCO Alaska, Inc.	y	DS 7, Well 27, contained on pad	Methanol	40	Super sucker for gravel and fluid, taken to pad 3 sowp.	Approved Landfill	Valve bumped open.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/2/89	89360121402	BPXA	y	Well J-5, contained on pad	Diesel	40	Absorbents used, gravel removed with loader. sorbents to nsb incinerator, gravel to lined berms on santa fe pad.	Multiple	Valve on bleed hose left open.
10/15/89	89360128803	BPXA	y	B Pad, Flowline B-94, module B 57, Not given.	Methanol	40	Vac truck used, fluid injected at pad 3.	Subsurface Injection	While draining flowline, drainage drum was overfilled due to a surge of liquid at time vac truck shut off. Report states: no apparent damage; site to be monitored.
11/2/89	89360130603	BPXA	y	Well H-16, Contained on pad	Hydraulic oil	40	Sorbents used on pooled oil, snow and gravel removed with grader/loader. sorbents to incinerator, gravel to lined berm at santa fe pad.	Multiple	Hose ruptured on arctic coiled tubing unit.
11/5/89	89360930902	ARCO Alaska, Inc.	y	DS 15, Well 12, Contained on pad.	Methanol	40	Absorbents used, taken to burnable dumpster, free liquids to pad 3.	Incineration/approved Landfill	While filtering fluid, lid seal failed. Mixture 60% methanol, 40% water spilled.
11/23/89	89360932701	BPXA	y	Well A-6, Contained in snow on pad	Methanol	40	Snow removed by loader, taken to lined berm at santa fe pad for recovery in snow melter.	Recycled	Hose broke on coiled tubing unit.
11/27/89	89360133101	BPXA	y	Well E-6, Contained in snow in reserve pit.	Crude	40	Snow removed by loader and shovels, taken to snow melter for recovery.	Recycled	Oil vented from top of well house west across reserve pit in back of well house.
12/3/89	89360933701	BPXA	y	C Pad Well 21, Contained on pad	Methanol	40	Loader removed material, taken to a3/w2 melt tank for fluid recovery and gravel cleaning.	Recycled	Material sloshed out of tank unit when Veco truck hooked up to relocate.
12/10/89	89360934403	BPXA	y	GC2, Skid 408, Contained on pad	Antifreeze	40	Loader removed contaminates, taken to t pad temp storage site.	Interim Containment	Lost 24 volt power to control panel.
12/15/89	89360134902	BPXA	y	Well Q 5, Contained in snow and gravel on pad	Crude	40	Snow/gravel removed with loader, absorbents used. pads taken to dumpster, snow to t pad for recovery, gravel to t pad.	Multiple	Surge in flow rate to contractor's pump truck caused overflow.
12/17/89	89360935101	ARCO Alaska, Inc.	y	DS 13 Well 22, Contained on pad	Methanol	40	Snow/gravel removed, taken to nsb sowp.	Approved Landfill	Slop oil trailer overflowed due to leaking valve. Mixture 60% methanol, 40% water.
1/16/90	90360201601	ARCO Alaska, Inc.	y	DS 5 Well 11, Contained on pad, 8 x 10 area	Seawater	40	Loader removed material and snow, melted, taken to pad 3 for injection.	Subsurface Injection	Valve on upright tank blocked open by ice and material discharged after hose disconnected.
2/16/90	90360104702	BPXA	y	E Pad Well 11, Contained on pad	Hydraulic oil	40	Bucket scraped up material, taken to a3w2 melter for recovery via gc1 skim tank.	Recycled	Filter gasket blew on Camco system during well work.
2/27/90	90360905801	ARCO Alaska, Inc.	y	DS Maintenance, Snow and gravel pad	Other	40	Loader removed snow/gravel. snow melted, returned liquid to tank, gravel to nsb sowp.	Multiple	Photo devoloping fluids spilled.
6/6/90	90360215701	ARCO Alaska, Inc.	y	DS 4 Well 10, Contained on pad	Produced water	40	Hand shovels used, diked off. heavy equipment removed material, took to pad 3.	Approved Landfill	Gel water and produced water. Caused by material leak from a hardline union during wellwork activities.
6/13/90	90360116403	BPXA	y	GC 1 Dirty Water Tank, Contained on pad	Crude	40	Sorbents used, gravel removed. sorbents to nsb incinerator, gravel to t pad.	Multiple	Mixture 5% crude, 95% dirty water spilled when vac truck operator pulled camlock off line with valve open.
7/3/90	90360918401	Dowell Schlumberger	m	Prudhoe Bay, None	Other	40	Absorbents used, gravel removed. gravel into bin, pads incinerated.	Incineration/approved Landfill	Xylene spilled when contractor removed filler hose too quickly.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/13/90	90360119402	ARCO Alaska, Inc.	y	C Pad, Pad and dike	Other	40	Loader removed gravel from site. samples taken for tph analysis, then gravel taken to pad 3.	Approved Landfill	99% hydrocarbon, 1% water vented when liquid expanded.
7/13/90	90360119403	BPXA	y	GC 1 Skid 7, Contained on pad	Diesel	40	Absorbents used, gravel removed. sorbents to burnable dumpster, gravel to a3w2 melt tank for washing.	Multiple	
8/3/90	90360921501	BPXA	y	GC 1 Skid 19, Contained on pad	Antifreeze	40	Sorbents used, gravel removed, taken to pad 3.	Approved Landfill	Pump leaked TEG.
8/23/90	90360123502	BPXA	y	Pad B 11, No tundra or water	Diesel	40	Sorbents soaked up 80%. gravel to be removed when equipment removed from site, taken to arco pad 3.	Approved Landfill	Hose came off squeeze unit. Visual inspection will be performed when cleanup completed.
8/26/90	90360923801	Alaska Petroleum Contractors	y	ARCO DS maintenance pad, Gravel	Corrosion inhibitor	40	Loader, shovels removed gravel, took to pad 3 sowp.	Approved Landfill	Truck backed into drums, broke seals.
10/21/90	90360929402	BPXA	y	Z Pad Well 2, Contained on pad	Methanol	40	Gravel removed, taken to pad 3.	Approved Landfill	
11/4/90	90360130801	Alaska Petroleum Contractors	y	FS 1, 20 x 20 ice/snow/gravel	Crude	40	Loader, super sucker, hand shovel, absorbents used. liquid melted, gravel separated. gravel to pad 3, liquid reused.	Multiple	
11/23/90	90360132701	BPXA	y	S Pad Well 24, Snow/gravel on pad	Crude	40	Snow/gravel removed by loader, taken to t pad pit.	Approved Landfill	Frozen valve thawed, allowing diesel/crude to leak.
1/24/91	91360902402	BPXA	y	GC 1 T-311, Snow and gravel under tank	Antifreeze	40	Loader removed snow/gravel, taken to t pad pit.	Approved Landfill	
2/5/91	91360903601	BPXA	y	GC 3 Well D, Snow around well house	Methanol	40	Shovels removed material, taken to t pad pit.	Approved Landfill	
3/4/91	91360206301	ARCO Alaska, Inc.	y	DS 3, 50 sq ft on pad	Gelled water	40	Super vac removed fluid, loader removed frozen material. taken to pad 3 injection.	Subsurface Injection	During squeeze operation, material sloshed over side.
3/17/91	91360107601	Alaska Petroleum Contractors	y	DS 16 Well 15, 10 x 15 snow on gravel	Crude	40	Loader used, melted in open top tank, recyled fs 1.	Recycled	
3/18/91	91360107702	BPXA	y	BOC fuel pumps, Contained on pad	Diesel	40	Absorbents, loader used. taken to a3w2 for thawing, recovery.	Recycled	Schlumberger vehicle refueling when shutoff failed.
3/18/91	91360907701	ARCO Alaska, Inc.	y	DS 13 Well 5, 6 x 12 snow on gravel pad	Methanol	40	Loader removed snow. melted, taken to pad 3 sw pit.	Approved Landfill	
3/20/91	91360107902	ARCO Alaska, Inc.	y	DS 16 sump, Snow on pad	Crude	40	Loader, shovels used. material melted, recycled fs 1.	Recycled	Leaky valve on sump.
3/25/91	91360108402	ARCO Alaska, Inc.	y	DS L5 Well 31, 50 x 500 ft snow on tundra	Crude	40	Super sucker, loader, hand tools used. snow melted, taken to pad 3 for injection.	Subsurface Injection	Light spray 90% oil, 10% diesel.
3/25/91	91360908402	ARCO Alaska, Inc.	y	Central Gas Facility, Snow on pad	Antifreeze	40	Absorbents used, loader removed snow/gravel. absorbents to nsb incin., snow and gravel to pad 3 sw pit.	Incineration/approved Landfill	Spilled during transfer.
4/3/91	91360109301	BPXA	y	Z Pad, Snow on pad	Crude	40	Loader removed snow, took to t pad pit.	Interim Containment	Crude, diesel, methanol discovered after well work.
4/21/91	91360911101	ARCO Alaska, Inc.	y	U 9A Pad, Contained on pad	Other	40	Loader removed snow, melted, took to pad 3 swdp.	Approved Landfill	Varsol (solvent) spilled.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/1/91	91360115201	ARCO Alaska, Inc.	m	ARCO fuel terminal, 10 x 10 ft gravel pad	Hydraulic oil	40	Absorbents used, put in burnable dumpster. gravel taken to pad 3.	Incineration/approved Landfill	
7/2/91	91360218301	BPXA	y	A Pad Well 3, Gravel pad	Produced water	40	Loader removed gravel, took to arco pad 3 pit.	Approved Landfill	
9/24/91	91730126702	BPXA	m	Outside Module 401, Contained on pad	Crude	40	Absorbents used, gravel removed. pads to nsb dumpster, gravel to holding pit.	Multiple	FAX. Produced water of 80% crude, 20% water. Total vol. 50 gal.
10/11/91	91730228401	BPXA	y	D Pad Well 6, Contained on pad	Seawater	40	Shovels, loader used. snow/ice melted, recycled into system.	Recycled	
1/21/92	92730202101	Halliburton Services	y	DS 17-3, 2 sq yds	Gelled water	40	Scooped up with loader, dumped in slop tank, taken to pad 3.	Approved Landfill	40# gel/1000 gal. froze on top of ground when air blown into frac tank.
2/1/92	92730203201	H.C. Price	y	Seawater Treatment Plant, Not given	Other	40	Cleaned up, no method given, taken to sewage treatment plant.	Recycled	Sewage water spilled.
3/21/92	92730208101	ARCO Alaska Inc.	y	DS 12, 36 sq ft on pad	Seawater	40	Shovels used. disposal not given.	Not Given	
4/22/92	92730111401	VECO	y	FS 2, Pad	Diesel	40	Not given.	Unknown	
6/27/95	95360917801	BPXA	y	F PAD WELL 39, CONTAINED ON GRAVEL PAD	Acid	40	Guzzler used to remove gravel, fluids. materials taken to t pad.	Approved Landfill	HCL 5% AND 100 GALLONS OF SEAWATER SPILLED DURING ACID WASH JOB. VISUAL INSPECTION REVEALS NO REMAINING CONTAM.
7/28/95	95399920901	ARCO ALASKA INC.	y	East Prudhoe Bay, CGF FACILITY,	Therminal	40	Field Visit/s, Case Closed 01-00-00		Unknown
11/17/95	95399932101	PEAK OIL SERVICES	y	EAST OP AREA, ARCO PAD 3,	Diesel	40	Took Report, Case Closed 01-00-00		Human Error
12/16/95	95399935001	BPXA	y	West Prudhoe Bay, R-18,	Drilling Muds	40	Took Report, Case Closed 01-00-00		Human Error
3/2/96	96399906201	BPXA	y	West Prudhoe Bay, X PAD WELL 32,	Acid, Other	40	Took Report, Case Closed 01-00-00		Overfill
8/21/96	96399923402	BPXA	y	Well Pad H,	Crude	40	Took Report, Case Closed 01-00-00		Human Error
11/9/96	96399931401	PARKER DRILLING	ym	RIG 245 PAD & WELL 1C-11,	Drilling Muds	40	Took Report, Case Closed 01-00-00		Equipment Failure
8/11/97	97399922302	BPXA	y	West North Slope, BP B-PAD.,	Produced Water	40	Phone Follow-up, Case Closed 09-17-97		Valve Failure
3/14/98	98399907302	B.P.	y	EAST NORTH SLOPE, B.P. GC-3 PAD.,	Produced Water	40	Took Report, Case Closed 01-00-00		Seal Failure
4/26/98	98399911602	B.P.	y	EAST NORTH SLOPE, B.P. GC-2 PAD.,	Other	40	Took Report, Case Closed 05-20-98		Leak
6/22/98	98399917301	ARCO	y	EAST NORTH SLOPE, ARCO CGF.,	Drag Reducing Agent	40	Took Report, Case Closed 01-00-00		Valve Failure
10/21/98	98399929401	Frontier Equipment	ym	West North Slope, FRONTIER PAD,	Diesel	40	Took Report, Case Closed 12-02-98		Human Error
12/6/98	98399934001	NABORS ALASKA DRILLING	ym	East Prudhoe Bay, DRILL SITE 7, WELL 29A, RIG CDR1,	Other	40	Took Report, Case Closed 12-06-98		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/4/99	99399921601	ARCO ALASKA	ym	West North Slope, KUPARUK HSET, PIG RECEIVER, MOD,	Diesel	40	Took Report, Case Closed 08-09-99		Unknown
9/28/99	99399927101	DOWELL SCHLUMBERGER	ym	East Prudhoe Bay, DOWELL FACILITY, SPINE ROAD,	Other	40	Took Report, Case Closed 09-28-99		Corrosion
1/14/00	00399901402	AK PETROLEUM CONT/BPX	y	West Prudhoe Bay, Well Pad C-18,	Seawater	40	Took Report, Case Closed 01-19-00		Leak
2/14/00	00399904502	ARCO ALASKA	y	EAST OPERATING AREA PRUDHOE BAY, FLEET VEHICLE SHO,	Diesel	40	Took Report, Case Closed 02-15-00		Line Failure
6/10/01	01399916103	NABORS DRILLING/ BPX	y	West North Slope Well Pad Y,	Other	40	Took Report, Case Closed 06-10-01		Leak
7/7/01	01399918801	BPXA	y	Drill Site 1 (DS-1), DS-1 FLOWLINE RUPTURE	Produced Water	40	Field Visit/s, Case Closed 11-06-01		Unknown
8/20/01	01399923201	Tracer/BP Exploration	y	S PAD EXTENSION,	Methyl Alcohol (Methanol)	40	Took Report, Complaint/Report Received 08-21-01		Equipment Failure
12/18/01	01399935202	NORCON/BP EXPLORATION ALASKA	y	West Prudhoe Bay, Well Pad V,	Hydraulic Oil	40	Took Report, Case Closed 12-20-01		Equipment Failure
4/24/02	02399911401	BPXA	y	Well Pad R-27,	Crude	40	Phone Follow-up, Final Report 04-26-02		Valve Failure
5/23/02	02399914301	BPXA	y	Well Pad J,	Seawater	40	Took Report, Complaint/Report Received 05-24-02		Containment Overflow
9/28/02	02399927101	BPXA	y	Well Pad H,	Diesel	40	Took Report, Final Report 09-30-02		Equipment Failure
12/7/02	02399934101	VECO/BP EXPLORATION ALASKA	y	PAD 10,	Methyl Alcohol (Methanol)	40	Phone Follow-up, Final Report 01-17-03		Gauge/Site Glass Failure
1/19/04	04399901902	BPXA	y	L Pad (Steamer Pad),	Diesel	40	Field Visit/s, Case Closed 08-12-04		Gauge/Site Glass Failure
5/6/04	04399912702	BPXA	y	Well Pad C,	Corrosion Inhibitor	40	Phone Follow-up, Case Closed 07-27-04		Equipment Failure
10/20/05	05399929302	BPXA	y	Central Gas Facility (CGF),	Propylene Glycol	40	Took Report, Case Closed 10-24-05		Human Error
7/11/06	06399919201	BPXA	y	Drill Site 4,	Drilling Muds	40	Took Report, Case Closed 07-19-06		Human Error
6/30/88	88360118201	ARCO Alaska, Inc.	y	CCP (Central Compressor Plant), contained on pad	Unknown	39	Raked gravel into pad/dug up saturated areas	Padspred	13 locations where oil leaked through bolt holes/replaced gravel
2/3/90	90360103404	ARCO Alaska, Inc.	y	DS 7 Well 8, Contained on pad	Diesel	38	Super sucker used, recycled at fs 1.	Recycled	Needle valve broke off. Person in charge of group failed to report spill right away to ARCO environmental.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/22/91	91360120301	Nabors AK Drilling	y	DS 5 Well 13, 8 x 8 gravel	Crude	38	Sorbents used, gravel removed. sorbents incin. nsb, gravel to pad 3 sowp.	Incineration/approved Landfill	Improper alignment of choke manifold spilled 1 bbl 90% crude, 10% seawater.
6/16/96	96399916801	BPXA	y	West Prudhoe Bay, B PAD,	Drilling Muds	38	Took Report, Case Closed 01-00-00		Human Error
2/12/98	98399904302	HOUSTON CONTRACTING COMPANY	ym	EAST NORTH SLOPE, TUNDRA SIDE OF SPINE ROAD,	Diesel	38	Took Report, Case Closed 09-04-98		Rollover/Capsize
3/10/04	04399907001	BPXA	y	Well Pad Z,	Hydraulic Oil	37	Took Report, Case Closed 03-11-04		Equipment Failure
4/8/88	88360109902	Standard Alaska Production Com	y	R Pad, Well R-23,	Diesel/water/hydraulic	36	Contaminants scraped up	Approved Landfill	Coupling failed. Will clean up later in the day
2/25/85	85360105602	Sohio	y	GC-1 Skid 20,	Crude	35	Con. snow & ice scraped up		
4/27/85	85360111702	Sohio	y	Stores yard,	Emulsion breaker	35	Scraped up with shovels, sorbents	Subsurface Injection	
6/27/85	85360117801	Sohio	y	GC-3 Ullage tanks,	Crude	35	Pooled oil-vacuum trucked up; gravel scraped up		
9/27/86	86360127002	Standard Alaska Production Com	y	F Pad,	Diesel	35	Soaked up w/sorbents-snow shoveled up	Incineration/approved Landfill	Interim report received 10/9/86
2/8/87	87360903901	Standard Alaska Production Com	y	GC-1, Skid 5, Area around vessel	Silicon ant-foam	35	Vacuumed up liquid/other contaminants scraped up	Multiple/see Comments	liquid to system/others incinerated
7/3/87	87360118401	Standard Alaska Production Com	y	F-Pad, Rig 1-ES, Area around F-4 well cellar	Crude	35	Soaked up w/sorbents-contaminants scraped up	Pads Incinerated-contaminants Store	
8/24/87	87360123602	Standard Alaska Production Com	y	Fuel Ramp, BOC Pad, Area around fuel ramp	Diesel	35	Contaminated gravel removed	Interim Containment	
2/25/88	88360105601	ARCO Alaska, Inc.	y	DS 1, Well 32,	Crude	35	Contaminants scraped up	Interim Containment	
5/27/88	88360114802	ARCO Alaska, Inc.	y	L-5, Well 16,	Crude	35	Liquid vacuumed up/contaminants scraped up	Liquid Recycled/conts To L2 West Pi	
6/23/88	88360117502	ARCO Alaska, Inc.	y	DS 7, Well 8, contained on pad	Diesel	35	Contained on pad	Other	Cause: hole in coiled tubing
9/14/88	88360125805	SAPC Endicott	y	Well E-3, contained on pad	Diesel	35	Gravel scraped up with loader	Approved Landfill	
12/10/88	88360134501	SAPC Endicott	m	A-16, contained on pad	Methanol	35	Material shoveled up	Recycled	Halliburton valve on CTU leaked

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/21/89	89360111106	BPXA	y	Well D-20, contained in snow on pad	Crude	35	Oil and contaminated water picked up with sorbents, taken to nsb incinerator	Incinerated	5 gallons crude, 30 gallons produced water. Pump failed causing blow back to tankage.
7/26/89	89360120706	NANA	m	ARCO Fuel Facility, Contained on pad	Diesel	35	Loader picked up gravel, took to nsb sowp.	Approved Landfill	ARCO handled cleanup.
2/15/90	90360904601	Canadian Fracmaster	y	DS 16 Well 14 ARCO, Contained on pad	Methanol	35	Snow shoveled up, put into drums. after melting, will be takent to pad 3 for injection.	Subsurface Injection	60/40 mixture methanol/water.
3/7/90	90360106601	BPXA	y	H Pad Well 21, Contained on pad next to wellhouse	Crude	35	Loader removed material, taken to t pad for melting and recovery.	Recycled	Union on hardline separated spilling crude and seawater, no ratios given.
3/7/90	90360106602	BPXA	y	Pad H Well 21, Contained on pad	Crude	35	Loader removed material, taken to t pad for melting and recovery.	Recycled	Union on hardline separated.
3/10/90	90360206901	ARCO Alaska, Inc.	y	DS 1 Well 19, Contained on pad	Seawater	35	Frozen ice scraped up, melted and disposed of at pad 3.	Subsurface Injection	Pipe fitting leak on charge pump.
3/24/90	90360908301	Conoco	y	G Pad, 5 x 10 ft on pad	Antifreeze	35	Vacuumed up glycol and snow, some gravel. bagged, put in drums, taken to temp storage.	Interim Containment	Glycol mixture (60% glycol, 40% water) being added to heater. Operator had to leave area, heater overflowed.
4/30/90	90360112002	VECO	m	Bull Rail-West Camp, Contained on pad	Diesel	35	Snow removed by loader. taken to melter, will be injected, probably at 1d.	Subsurface Injection	Plug vibrated loose on fuel tank.
5/18/90	90360113801	BPXA	y	H Pad Well 4, Contained on pad	Crude	35	Vac truck used, snow/gravel removed. pooled oil recycled at gc1 ullage tank, snow/gravel to t pad sowp.	Multiple	Lateral line valve leaked oil onto pad, snow pile in rear of wellhouse.
6/15/90	90360116602	ARCO Alaska, Inc.	y	MCC Fuel Island Storage Tank, Contained on pad	Gasoline	35	Gravel removed, taken to pad 3.	Approved Landfill	
6/15/90	90360116604	Peak Oilfield Services	y	ARCO MCC fuel island Pad 3 Cell 2, Gravel pad and dike	Gasoline	35	Gravel removed (2 cu yd) taken to pad 3 waste cell 2.	Approved Landfill	Hose blew off band while gas being pumped into tank.
8/11/90	90360222301	Halliburton Services	y	DS 13 Well 5, Contained on pad	Gelled water	35	Gravel removed,taken to sw dumpster, then to arco pad 3.	Approved Landfill	Leak of gelled water during transfer.
11/11/90	90360931502	BPXA	y	Pad P, Contained on pad	Methanol	35	Snow/gravel shoveld up, put in pallet boxes, taken to arco's pad 3.	Approved Landfill	
2/27/91	91360105801	Alaska Petroleum Contractors	y	FS 1 slop oil loading, 20 x 15 snow/ice on gravel	Crude	35	Loader removed gravel/snow. melted, separated. liquid reused, gravel taken to pad 3 sw pit.	Multiple	Final listed spill date as 2-28.
8/1/91	91730221301	Dowell Schlumberger	y	DS 7, 1 sq yd gravel	Seawater	35	Absorbents used, shovels, loader removed gravel. pads to nsb burnable dumpster. gravel to solid waste dumpster.	Incineration/approved Landfill	50% seawater/50% gelled fresh water.
8/17/91	91730122902	BPXA	y	Y Pad Y-16, Contained on pad	Diesel	35	Loader removed material. taken to arco pad 3.	Approved Landfill	
4/26/92	92730111802	BPXA	y	Pad A well 18, Contained on pad	Hydraulic oil	35	Absorbents, shovels, loader, dump used. sorbents to nsb dumpster, snow to a3w2 melter.	Multiple	
1/15/96	96399901501	VECO	y	Seawater Injection Plant (SIP),	Other	35	Took Report, Case Closed 01-00-00		Seal Failure
1/8/97	97399900802	BPXA	y	West Prudhoe Bay, Well Pad Y,	Hydraulic Oil	35	Took Report, Case Closed 01-00-00		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/21/98	98399908002	ARCO	y	EAST NORTH SLOPE, ARCO PINT MAC 2.,	Produced Water	35	Took Report, Case Closed 03-23-98		Leak
4/4/99	99399909402	ARCO	y	ARCO, EOA, DS 4 MANIFOLD BUILDING,	Produced Water	35	Took Report, Case Closed 04-12-99		Unknown
1/31/00	00399903201	ARCO ALASKA	y	East Prudhoe Bay, GPMA DRILLSITE L1, NEXT TO MODUL,	Hydraulic Oil	35	Took Report, Case Closed 02-08-00		Line Failure
3/5/00	00399906501	BAROID DRILLING	ym	PRUDHOE BAY, MUD PLANT AT TANK FARM,	Other	35	Took Report, Case Closed 03-06-00		Human Error
4/28/01	01399911801	BPXA	y	West North Slope, WEST OP AREA, N-PAD,	Crude	35	Took Report, Case Closed 04-29-01		Unknown
1/8/04	04399900801	ALASKA WEST EXPRESS, INC.	y	BULK FUEL STATION, WOA,	Corrosion Inhibitor	35	Phone Follow-up, Case Closed 01-12-04		Equipment Failure
8/17/05	05399922901	ASRC Energy Ser (formerly APC)	y	Well Pad L,	Propylene Glycol	35	Took Report, Case Closed 08-23-05		Equipment Failure
9/4/05	05399924702	BPXA	y	Well Pad J,	Crude	35	Took Report, Case Closed 09-06-05		Leak
9/24/05	05399926702	BPXA	y	Flow Station 2 (FS-2), BP-East	Engine Lube Oil	35	Took Report, Case Closed 08-31-06		Equipment Failure
9/5/06	06399924801	BPXA	ym	Santa Fe Pad,	Diesel	35	Phone Follow-up, Case Closed 09-07-06		Crack
12/18/06	06399935201	ASRC Energy Ser (formerly APC)	y	Drill Site 4,	Produced Water	35	Phone Follow-up, Case Closed 01-19-07		Erosion
12/3/90	90360233702	BPXA	y	B Pad Well 25, Contained on pad	Produced water	33	Loader removed material, taken to t pad pit, because of high snow/low contaminate ratio.	Approved Landfill	Material found after squeeze unit moved.
03/19/07	07399907801	BPXA	y	MOWF STORES,	Methyl Alcohol (Methanol)	33	Phone Follow-up, Complaint/Report Received 03-20-07		Human Error
03/19/07	07399907802	BPXA	y	Base Operation Center (BOC),	Methyl Alcohol (Methanol)	33	Took Report, Complaint/Report Received 03-19-07		Human Error
6/30/81	81360118101	Sohio	y	Stores yard BOC Pad, Not given.	Engine lube oil	32	Not given.	Not Given	Entered 10-27-89 from old records. Follow up 7-7 and 9-23-81.
8/20/87	87360123201	ARCO Alaska, Inc.	y	DS 4 & 11, Two spots one 4' X 4' and one 4' X 10' under line	Crude and produced water	32	Soaked up with sorbents	Incinerated	
5/14/88	88360113501	ARCO Alaska, Inc.	y	C.O.T. Fuel Dock,	Diesel	32	Soaked up with sorbents	Incinerated	
1/2/89	89360100201	ARCO Alaska, Inc.	y	DS 17, Well 6, on snow on pad	Diesel	32	A loader scraped up the contaminated snow		Spill was discovered when crew was removing snow for equipment moving

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/18/89	89360126101	Dowell Schlumberger	m	DS yard, NE corner bullrail, contained on pad	Antifreeze	32	Absorbents used, gravel removed. materials taken to solid waste dumpster for disposal at nsb landfill.	Approved Landfill	Mixture 30 gal ambitrol, 2 gal oil. Truck was hooked up to the new bull rail, liquid was pumped in to engine crank case and overflowed out of fill tube.
12/22/89	89360135601	ARCO Alaska, Inc.	y	Hot Water Plant by Webster Reservoir, Contained on ice on pad	Crude	32	Loader, bucket and vac truck used. melted and injected at pad 3.	Subsurface Injection	Tanker overfilled when sight glass blocked by ice. 8 gal fresh water, 32 gal crude.
12/8/91	91730134202	BPXA	y	GC 2 Skid 453, Contained on pad	Crude	32	Dozer scraped up snow/ice/gravel. taken to arco pad 3.	Approved Landfill	32 gal. crude, 157 gal produced water, 21 gal. sand (total 210 gal.) spilled when elbow on pipe removed and plug of sand fell out.
7/18/06	06399919901	BPXA	y	Gathering Center 1 (GC-1),	Crude	32	Took Report, Case Closed 07-21-06		Equipment Failure
11/1/80	80360130601	Sohio	y	A Pad, West Side, Prudhoe, Not given	Antifreeze	30	Not given	Unknown	Data entered 9-21-89 from handwritten records.
11/2/80	80360130701	Sohio	y	G Pad, Prudhoe, Not given	Diesel	30	Not given	Unknown	Data entered 9-21-89 from handwritten records.
11/15/80	80360132001	Sohio	y	C Pad, Old Storage Yard, Prudhoe, Not Given	Antifreeze	30	Not given.	Not Given	Entered 9-22-89 from handwritten reports. Mixture Ethylene glycol and gasoline.
12/10/80	80360134501	NANA	m	Sec. 12, T11N, R10E, Not Given	Hydraulic oil	30	Not given.	Not Given	Entered 9-22-89 from handwritten reports.
8/7/81	81360121903	Sohio	y	Term Well C, Prudhoe, Not given.	Crude	30	Not given.	Not Given	Entered 10-31-89 from old records. Follow up 9-2-81. Mixture crude and mud.
9/3/81	81360124602	Sohio	y	Skid 52, snow shelter B Pad, Not given.	Crude	30	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8 and 11-11-81.
12/25/81	81360135901	ARCO Alaska, Inc.	y	DS 11 Well 5, Matting material under rig	Diesel	30	Vac truck, absorbents used, fluids to ow well, pads incinerated.	Incineration/approved Landfill	Entered 2-21-90 from old records. Rubber gasket washed out.
6/15/82	82360116601	ARCO Alaska, Inc.	y	East Bay State #1,Prudhoe Bay, Edge of gravel pad. Very light oil sheen on beach.	Diesel	30	Absorbent booms/pads on surface of h2o and remove contaminated gravel.	Incineration/approved Landfill	They guess type is diesel. Cause:"may have happened while in process of pad cleanup". Last testing in Dec. 81-gas cap gas test. Entered from old records 4-28-90.
11/22/82	82360132601	ARCO Alaska, Inc.	y	DS 13 Well 25, 300 yds x 50 yds snow on tundra and gravel pad	Crude	30	Snow scraped off pad and tundra. will be taken to nsb landfill.	Approved Landfill	Crude mist carry-over when gas released. Entered from old records 4-10-91.
1/16/83	83360001601	ARCO Alaska, Inc.	y	FS 3, Prudhoe Bay,	Other	30	All recovered.	Unknown	Entered 5/7/90 from old records. Cause: Unbalanced pallet.
7/7/83	83360118802	SOHIO	y	C Pad, Skid 58, None, contained on pad.	Crude	30	Sorbents, scraped up.	Not Given	Cause: Falnge failed. Entered from old records 6/26/90.
7/13/83	83360119401	TEXACO/Anchorage	y	Prudhoe Well Site 1, Unknown	Other	30	Pit berm repaired & cleaned.	Not Given	Reserve Pit Water caused by reserve pit overflow. Entered from old records 6/26/90.
7/17/83	83360119801	SOHIO	y	E side of R Pad, Gravel & tundra: Small sheen.	Engine lube oil	30	Sorbents and gravel removed.	Not Given	Entered from old records 6/26/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/30/83	83360127301	SOHIO	y	GC-1 Skid 4, None	Diesel	30	Vacuum truck/sorbents.	Unknown	Cuase: Oil leaked from header. Final Report also on 10/11/83. Entered from old record 7/10/83.
10/9/83	83360928201	SOHIO	y	Skid 301, GC1, Prudhoe, None	Antifreeze	30	Sorbents	Unknown	Final report also on 11/8/83. Entered from old records 7/10/90.
10/21/83	83360129401	SOHIO	y	R Pad, Skid 56, Prudhoe, None	Diesel	30	Sorbents, snow shoveled.	Unknown	Also final report on 11/8/83. Entered from old records 7/10/90.
10/23/83	83360929601	SOHIO	y	Skid 304, GC 1, Prudhoe, Contamination of frozen gravel.	Antifreeze	30	Cont. snow/gravel recover	Unknown	Type: MEG. Also final report on 11/8/83. Entered from old records 7/10/90.
11/6/83	83360931001	SOHIO	y	Skid 326, GC1, Prudhoe, Unknown	Antifreeze	30	Vacummed & contaminated snow removed.	Not Given	2nd report received 1/3/84. Entered from old records 7/26/90.
11/9/83	83360131303	SOHIO	y	GC-2, Ullage Tanks, Unknown	Diesel	30	Sorbents, scraped w/loader.	Not Given	Type: Oil/Diesel/H2O mix. Caused by overflow during transfer. Entered from old records 7/26/90.
11/13/83	83360131701	SOHIO	y	East Dock, Unknown	Av fuel	30	Scraped w/ bucket loader.	Not Given	Entered from old records 7/27/90.
11/13/83	83360931702	SOHIO	y	GC-3, Skid 411, Unknown	Antifreeze	30	Shop vac & floor dry.	Not Given	Type: MEG. Entered from old records 7/26/90.
12/1/83	83360133501	ARCO Alaska, Inc.	y	West Dock STP Prudhoe, Unknown	Crude	30	Cleaned up.	Not Given	Entered from old records 7/30/90.
12/23/83	83360935701	SOHIO	y	GC 3 Skid 301, Unknown	Antifreeze	30	Floor dry/bucket loader.	Not Given	Entered from old records 7/30/90.
1/30/84	84360135703	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, GRAVEL PAD	Gasoline	30	Soak with gravel and sand and contained		Summit Equipment.
4/17/85	85360110702	Sohio	y	GC-3 Skid 5,	Crude	30	Con. snow & ice scraped up		
12/29/85	85360136301	ARCO Alaska, Inc.	y	DS 6,	Diesel	30	Scraped up with dozer/steamed/removed from cont.	Recycled	
12/30/85	85360936401	Sohio Alaska Petroleum Company	y	U-Pad Skid 54,	Methanol	30	Scraped up contaminated snow and gravel		
3/1/86	86360906001	Sohio Alaska Petroleum Company	y	GC-2 Skid 471,	Glycol	30	Scraped up contaminated snow	Incinerated	
3/30/86	86360108901	Otis Engineering Corp.	m	ARCO Well Site WSP #20,	Crude	30	Soaked up with absorbent pads	Disposed Of By Arco	
4/17/86	86360910701	Sohio Alaska Petroleum Company	y	WSW Methanol Tank Loading Dock,	Methanol	30	Soaked up with snow - scraped up	Interim Containment	
6/26/86	86360117703	Sohio Alaska Petroleum Company	y	M Pad,	Transmission oil	30	Vacuumed up/soaked up with sorbents	Incineration/approved Landfill	
9/13/86	86360125601	Standard Alaska Production Com	y	GC-3, Skids 20 and 21,	Crude	30	Pooled fuel picked up w/vacuum truck-gravel scrape	Liquid To Gc-2 Ullage Tank-gravel*	*to B-Pad Reserve Pit

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/22/87	87360105301	Standard Alaska Production Com	y	J-2,	Diesel/lub oil	30	Soaked up w/sorbents-contaminants scraped up	Multiple/see Comments	Sorbents incinerated - contaminants taken to J Pad Reserve Pit
4/5/87	87360106403	Standard Alaska Production Com	y	G-1,	Diesel	30	Contaminants scraped up	Interim Containment	
5/23/87	87360114301	Standard Alaska Production Com	y	Well X-14,	Crude	30	Contaminants scraped up	Subsurface Injection	
5/30/87	87360115001	ARCO Alaska, Inc.	y	FS 3, Around flare	Crude	30	Scraped up contaminants	Recycled	
8/15/87	87360122701	ARCO Alaska, Inc.	y	DS 2, Well 18,	Diesel	30	Vacuumed liquid/soaked up with sorbents	Liquid Injected/sorbents Incinerate	
9/15/87	87360125801	Standard Alaska Production Com	m	Spine road, Spine Road at Cold Storage Pad	Hydraulic oil	30	Contaminated gravel scraped up	Approved Landfill	
10/5/87	87360127802	ARCO Alaska, Inc.	y	FS 1, ARCO side of station	Crude	30	Soaked up with sorbents-contaminants scraped up	Sorbents Incin-contams To Landfill	
11/23/87	87360132702	Standard Alaska Production Com	y	Well C-4,	Diesel	30	Soaked up with sorbents/contaminants scraped up	Incinerated	
12/9/87	87360134301	Standard Alaska Production Com	y	VMS Pad, Area around shop	Hydraulic oil	30	Contaminants scraped up	Interim Containment	
12/10/87	87360134401	ARCO Alaska, Inc.	y	DS 3,	Diesel	30	Soaked up with sorbents	Approved Landfill	
12/13/87	87360134701	Standard Alaska Production Com	y	VMS Pad,	Hydraulic oil	30	Contaminants scraped up	Incinerated	
1/24/88	88360102401	Standard Alaska Production Com	y	G-24,	Crude/diesel	30	Contaminants scraped up	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/3/88	88360106302	Standard Alaska Production Com	y	W-Pad, Rig AU-3, Area around storage tank	Diesel	30	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-conts To Landf	
3/5/88	88360106501	ARCO Alaska, Inc.	y	DS 12,	Water/crude	30	Contaminants scraped up	Interim Containment	
4/2/88	88360109301	Standard Alaska Production Com	y	W Pad,	Hydraulic oil	30	Contaminants scraped up	Approved Landfill	Prime movers lines.
4/20/88	88360111002	ARCO Alaska, Inc.	y	DS 9, Well 30,	Hydraulic oil	30	Contaminants scraped up	Interim Containment	Bypass hose pulled loose.
5/25/88	88360114601	Standard Alaska Production Com	y	Well D-16,	Crude	30	Contaminants scraped up	Approved Landfill	
6/1/88	88360115302	ARCO Alaska, Inc.	y	L 4, contained on pad	Diesel	30	Vacuumed up snow & material/graded gravel into pad	Recycled	
6/2/88	88360115401	ARCO Alaska, Inc.	y	DS Maintenance pad, DS Maintenance pad	Crude	30	Absorbents/gravel spots graded into gravel pit	Incinerated	material seeped out of gravel pad in several areas/source unknown
6/10/88	88360116201	ARCO Alaska, Inc.	y	DS 7, Between Wells 5 & 6, DS 7, Between Wells 5 & 6	Hydraulic oil	30	Soaked up w/sorbents; contaminants scraped up	Incinerated	
7/8/88	88360119004	ARCO Alaska, Inc.	y	DS 13, Well 22, Contained on pad	Seawater	30	Contaminated gravel bladed into pad		
7/11/88	88360119304	ARCO Alaska, Inc.	y	DS 13, Well 22,	Seawater	30	Raked area into gravel pad		
8/4/88	88360121702	ARCO Alaska, Inc.	y	DS 4, Well 1-6, contained on pad	Diesel and crude	30	Removed contaminated gravel with shovels	Approved Landfill	Washed out of wellhouses while steam-cleaning wellhouses.
8/14/88	88360122704	ARCO Alaska, Inc.	y	DS 17, contained on pad	Corrosion inhibitor/diesel	30	Loader used to remove contaminated gravel	Approved Landfill	98% corrosion Inhibitor (C-129) / 2% Diesel
8/15/88	88360122801	ARCO Alaska, Inc.	y	DS 2, contained on pad	Crude and oil based muds	30	Super-sucker truck used to remove material &gravel		happened while steam cleaning a vellel material
9/3/88	88360124703	ARCO Alaska, Inc.	y	DS Maintenance, contained on pad	Corrosion inhibitor	30	Absorbents/hand shovels used to pick up gravel		Hose not drained properly while transferring material out of drums into tanker
9/3/88	88360124704	SAPC Endicott	y	Well H-30, contained on pad	Acid	30	Acid neutralized w/soda ash, loader for gravel	Approved Landfill	pumping unit failed, mud-acid leaked onto pad
10/12/88	88360128602	SAPC Endicott	y	H Pad, Well H-8, contained in snow on pad	Diesel	30	Loader scraped up snow	Approved Landfill	gasket blew and diesel leaked from pipe
11/24/88	88360132903	ARCO Alaska, Inc.	y	DS 9, Well 1, contained on pad	Hydraulic oil	30	Absorbents for material, loader for snow	Multiple/see Disposal	hose ruptured during wireline activity. Material skimmed for recycle

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/12/88	88360134701	SAPC Endicott	y	GC-II Skid 450, contained on pad	Crude	30	Material removed; method not given	Recycled	mixture of crude/methanol/water from tiger tank with HE GC Pegging
12/14/88	88360134902	ARCO Alaska, Inc.	y	DS 11, Well 1, contained on pad	Diesel	30	Snow cleaned up by loader	Approved Landfill	pressure relief valve opened on pump unit during well work operation
12/21/88	88360135603	ARCO Alaska, Inc.	y	DS 14, Well 39, contained on pad	Drilling muds	30	Loader removed material and contaminated snow	Approved Landfill	while drilling, material leaked beneath rig mats onto pad
12/27/88	88360136203	SAPC Endicott	y	Well R-10, contained on pad	Diesel	30	Material scraped up, removed with shovels, loader	Subsurface Injection	circulating through choke because of a gas bubble
1/7/89	89360100706	SAPC Endicott	y	G Pad, contained on pad	Diesel	30	Contaminate removed	Recycled	rig activity on site given as cause
1/13/89	89360101302	ARCO Alaska, Inc.	y	DS 9, at manifold bldg., in snow on pad	Crude	30	Snow chipped up with hand tools	Recycled	sump vessel overfilled when high level alarm did not function properly
1/21/89	89360102102	SAPC Endicott	m	behind vehicle maint. shop, contained on pad	Diesel	30	Contaminates scraped up with loader	Recycled	heater fuel tank leaked at seam due to vibration
1/27/89	89360102702	ARCO Alaska, Inc.	y	Seawater Treatment Plant, at the bullrail	Diesel	30	Snow scraped up by a loader	Recycled	burst fuel line on pickup truck
1/30/89	89360103005	SAPC Endicott	y	M-Pad, Skid 54, contained on pad	Corrosion inhibitor	30	Contaminated snow removed with loader	Multiple/see Disposal	mechanical failure inside chemical van
2/4/89	89360103502	ARCO Alaska, Inc.	y	Flowstation 2, Module 4918, 4'x12' area in south end of snow packed gravel pad	Other	30	Loader used to remove the material and contaminated snow. taken to pad 3 for disposal	Approved Landfill	Tretolite material leaked from camlock coupling on tank at module.
2/4/89	89360103509	SAPC Endicott	y	G 32, contained on pad	Hydraulic oil	30	Removal method not given	Recycled	
5/10/89	89360113003	ARCO Alaska, Inc.	y	FS 1, contained on pad	Other	30	Absorbents used and vac truck. absorbents taken to nsb incinerator, material, snow to pad 3.	Multiple	Mixture 95% water and 5% hydrocarbon sludge spilled when valve left open when vac truck hose removed.
5/15/89	89360913502	BPXA	y	P Pad, contained on pad	Antifreeze	30	All contaminates removed, hauled to melter.	Not Given	Material TEG spilled when hole in discharge line of glycol tanker caused spraying during line charging for hydrotesting. No tundra or water affected.
6/8/89	89360115901	ARCO Alaska, Inc.	y	DS 12, Well 32, contained on gravel pad	Crude	30	Absorbent pads and loader. pads taken to nsb incinerator, gravel will be taken to pad 3.	Multiple	During off loading, one tanker truck overfilled.
6/28/89	89360117902	ARCO Alaska, Inc.	y	Sag River Bridge, 25 gallons into river backwater	Crude	30	Booms deployed, sorbents used. contaminated snow, ice removed from bank. sorbents, snow bagged, taken to nsb incinerator	Incinerated	Product produced water(70% water, 30% crude) spilled during pipeline replacement. Catchment drum overfilled. Product entered water in slack backwater, not main stream. Booms contained spill. 95% recovered, remainder dissipated by high vulume flow in river
6/30/89	89360118102	ARCO Alaska, Inc.	y	FS 2, IMF Module 4940, Contained on pad	Crude	30	Absorbents used, gravel picked up by super sucker. gravel taken to nsb sowp, absorbents to nsb incinerator.	Multiple	Mixture 10% crude, 45% produced water, 45% seawater released when leaking valves allowed crude into seawater lines. When pig removed, spill occurred.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/27/89	89360123902	BPXA	y	C7, contained on pad	Crude	30	Wellhouse and lateral line to be washed down, sorbents removed, gravel removed. sorbents to nsb incinerator, gravel to nsb owp.	Multiple	Swivel seal on ball catcher gave out, resulting in oil and gas venting. Original report listed quantity of spill as 30 gal., final listed 30 bbls. Phone contact verified final figure of 30 bbls. 9-7-89 phne call from Pam Pope states spill definitely 30
10/9/89	89360128202	ARCO Alaska, Inc.	y	DS 18, Well 14, Contained on pad.	Diesel	30	Absorbents used, loader on gravel. sorbents to nsb incinerator, gravel to sowp.	Multiple	Drain valve bumped open.
10/9/89	89360228201	ARCO Alaska, Inc.	y	DS 5, Well 10, Contained on gravel pad.	Gelled water	30	Absorbents used, loader removed gravel. sorbents to nsb incinerator, gravel to nsb sowp.	Multiple	99.4% fresh water, 0.6% gel. Product 2 lb biozine. Water-based gel spilled when nipple broke on suction pump.
10/20/89	89360129303	BPXA	y	GC 1, Skid 326, Contained on pad	Crude	30	Sorbents used for crude on top of ice, taken to burnable dumpster.	Incinerated	Valve left in open position after screen cleaning.
10/28/89	89360930101	ARCO Alaska, Inc.	y	DS Maintenance yard, Contained on pad	Methanol	30	Vac truck and super sucker used. fluid recycled, gravel taken to nsb sowp.	Multiple	Mechanical pump seal failure. Mixture 60% methanol, 40% fresh water.
11/11/89	89360131502	Camco	y	DS 17, ARCO, No environmental damage.	Av fuel	30	Absorbents used, put in dumpster at ds 17, snow taken to oxbow landfill.	Approved Landfill	Ruptured hose on wireline unit. 12 to 15 gallons fluid spilled, contained immediately. Remaining amount absorbed, never reached ground. Final had ammended amount of 30 gal.
12/1/89	89360133502	ARCO Alaska, Inc.	y	Lisburne Production Center, Contained on pad	Diesel	30	Snow, gravel removed, taken to nsb sowp.	Approved Landfill	
12/3/89	89360933702	BPXA	y	H Pad Well 14, Contained on pad	Methanol	30	Loader removed material, taken to a3/w2 melt tank for fluid recovery and gravel cleaning.	Recycled	Needle valve had ice plug and did not close all the way. Camco the contractor.
12/22/89	89360235602	ARCO Alaska, Inc.	y	DS 11, Contained on gravel on pad	Seawater	30	Snow scraped up, small amount of gravel removed. taken to snow melter, then pad 3 pit.	Approved Landfill	Valve to snow melter left open. 90% seawater, 5% crude, 5% freshwater.
1/25/90	90360102501	VECO	y	Point McIntyre Tundra ice road, west dock area, Contained on pad	Crude	30	Contaminated snow removed, taken to snow melter, injected at pad 3.	Subsurface Injection	Vac unit not cleaned, identical vac unit was cleaned. Operator thought his unit was clean one, so residual oil discharged onto ice.
2/10/90	90360104101	ARCO Alaska, Inc.	y	DS L3 Well 1, Contained on pad	Crude	30	Super sucker used, taken to pad 3 for injection.	Subsurface Injection	Leak in hardline hammer union.
4/12/90	90360110201	BPXA	y	Point McIntyre West Dock, 1 gal over frozen seawater east of well	Crude	30	Snow, gravel removed with loaders, shovels. taken to t pad for recovery. gravel to a3w2.	Multiple	Gas surge during well test. Winds misted oil. No tundra affected. 6 additional laborers on cleanup.
4/23/90	90360211301	ARCO Alaska, Inc.	y	Access Road between DS 9 and FS 2., Contained in snow in light mist	Other	30	Handshovels, loader, vac truck used. snow melted, recycled at fs 2.	Recycled	While hydrotesting line, pipeline weld failed spilling seawater and gluteraldehyde concentration of 200 ppm.
5/20/90	90360914001	ARCO Alaska, Inc.	y	DS 12, Gravel pad	Corrosion inhibitor	30	Super suckers used. fluid taken injected pad 3, gravel to pad 3 sowp.	Multiple	Mixture 7/1 diesel and C129 Corrosion Inhibitor spilled when storage tank overfilled.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/28/90	90360114801	BPXA	y	Z Pad south side Rig 2, South side of pad	Diesel	30	Absorbent boom. nsb incinerator.	Incinerated	Snow pushed off pad by accident during snow removal. Presently diesel is contained around snow and floating on water next to pad.
5/28/90	90360114806	BPXA	y	Z Pad Rig 2, Snow and water next to pad	Diesel	30	Sorbent boom on melting snow. sorbents to nsb incin.	Incinerated	Contaminated snow pushed off pad by accident during winter snow removal. South side of pad, center of side on water off pad.
6/23/90	90360217402	ARCO Alaska, Inc.	y	PBOC Vehicle shop, Gravel pad	Other	30	Washwater removed, disposal after analysis of water.	Unknown	Washwater drained through floor drain onto pad.
6/30/90	90360118102	ARCO Alaska, Inc.	y	MCC Fuel island, Gravel Pad	Gasoline	30	Sorbents, and taken to nsb incinerator & pad 3.	Incinerated	Cause: Tanker overflow due to hose leak.
7/18/90	90360119901	ARCO Alaska, Inc.	m	West of Sag C Reservoir, Gravel of dike, some to adjacent pond	Unknown	30	Boom deployed, absorbents used. gravel removed. absorbents to nsb incin., gravel to pad 3.	Incineration/approved Landfill	Sheen observed on pond coming from adjacent contaminated gravel. Original volume reported as 1/2 pint.
8/5/90	90360121701	BPXA	y	CSTF Skid 249, Contained on pad	Diesel	30	Sorbents used, gravel removed. sorbents to arco incin., gravel to pad 3.	Incineration/approved Landfill	Operator forgot to return to monitor after interruption, safety shut-off failed.
8/9/90	90360222101	Halliburton Services	y	DS 15, Gravel	Gelled water	30	Super sucker used, shovels removed gravel. taken to pad 3.	Approved Landfill	Mixture water/gel (10 lb gel to 1,000 gal water) spilled when fluid sloshed from frac tank.
10/9/90	90360928201	ARCO Alaska, Inc.	y	DS 9 Well 43, Snow/gravel	Methanol	30	Loader removed snow and gravel. snow melted, recycled. gravel washed, analyzed.	Multiple	Snow blower broke sight glass hose.
10/22/90	90360929502	ARCO Alaska, Inc.	y	DS 3 Methanol Storage Tank, Gravel	Methanol	30	Material, gravel removed, washed. liquid recycled, gravel held pending analysis.	Interim Containment	Hose blew off tanker.
10/23/90	90360129601	BPXA	m	ARCO P.O.L. Pad, Contained on pad	Diesel	30	Absorbents used, gravel removed. sorbents to nsb incin., gravel to a3w2.	Incineration/approved Landfill	
11/19/90	90360232301	ARCO Alaska, Inc.	y	DS 16, Contained on snow on pad	Seawater	30	Loader removed material. melted, injected pad 3.	Subsurface Injection	Ice blockage broke free from hose connection during hook up.
11/29/90	90360133304	BPXA	y	ds 1 Dirty water tank, Contained on pad	Other	30	Loader removed contaminated snow. taken to pad 3.	Approved Landfill	Oil/water mix.
11/29/90	90360133305	Doyon Rig 9	y	Rig 9 DS 5, Snow on gravel	Diesel	30	Absorbents used, 12 yds snow/gravel removed. samples taken, material stored til disposal approved.	Interim Containment	ARCO responsible for cleanup.
11/30/90	90360133401	Conoco	y	J Pad, 400 sq ft pad	Hydraulic oil	30	Snow/gravel removed, absorbents used. placed on temp storage pad at mod 61, sorbents to dumpster.	Incineration/approved Landfill	
12/3/90	90360933701	ARCO Alaska, Inc.	y	DS 9 Well 41, Contained on snow on pad	Methanol	30	Loader, rake used. snow steamed, reused at ds 14 well 7.	Recycled	Packing on plunger failed; material sprayed onto pad.
12/15/90	90360134901	ARCO Alaska, Inc.	y	DS 5 Well 23, Contained within pit	Crude	30	Absorbents, shovels used. ijected pad 3, sorbents to nsb incin.	Multiple	50/50 crude, diesel.
1/8/91	91360900801	ARCO Alaska, Inc.	y	MCC Wing E 12, 50 ft on snow covered pad	Antifreeze	30	Shovels, loader, absorbents used. fluids injected pad 3 sw, sorbents to nsb burnable dumpster.	Multiple	Air bleeder blew up.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/28/91	91360502801	ARCO Alaska, Inc.	y	NGI Well 13, Contained on pad	Drilling muds	30	Handshovels removed snow/gravel, taken to pad 3 sowdp.	Approved Landfill	Spill downgraded 2/3/91 from 42 gal. Suspect leak from rig during previous drilling activities.
2/14/91	91360104502	BPXA	y	X Pad 10, Contained on pad	Fuel oil	30	Material removed after equipment moved, taken to t pad lined pit.	Interim Containment	30 gal diesel, 70 gal seawater, total 100 gal. Listed as final, but no recovered amount given.
2/24/91	91360205501	VECO	m	West Central Guard Shack, 10 ft diameter on pad	Other	30	Bucket scraped up snow/gravel. snow melted, reused; gravel to pad 3.	Multiple	Dirty water, no oil, spilled when guzzler tank stopped at guard shack and door leaked.
2/26/91	91360905701	Conoco	y	G Pad north end, 84 sq ft snow/gravel	Antifreeze	30	Loader removed snow/gravel, placed in temp storage behind module 61.	Interim Containment	Drum knocked over.
3/18/91	91360907702	BPXA	y	BOC kitchen ramp, Contained on pad	Antifreeze	30	Loader removed snow, put in dumpster.	Approved Landfill	
4/2/91	91360909201	BPXA	y	S Pad various locations, Contained on pad	Methanol	30	Loader used, material taken to t pad lined pit for summer recovery.	Interim Containment	Spots on pad from PE well work. Mixture methanol/glycol/diesel/hydraulic.
4/12/91	91360910201	BPXA	y	S Pad Well 7, Contained on pad	Methanol	30	Loader removed material, taken to t pad lined pit for summer removal.	Interim Containment	Main valve on intake unit worn out allowing fluid to pass into open bleed valve.
4/29/91	91360911902	ARCO Alaska, Inc.	y	DS 1, Snow on pad	Hydraulic oil	30	Loader removed material, melted, injected pad 3.	Approved Landfill	
5/1/91	91360212101	ARCO Alaska, Inc.	m	MGI 7, Snow on pad	Other	30	Loader removed snow/ice. taken to pad 3 for injection.	Subsurface Injection	Camlock hose fitting came off spilling 99% water, 1% surfactant.
5/9/91	91360512902	Peak Oilfield Services	y	Service Rd. 1/4 mi. from C Pad, Gravel road	Drilling muds	30	Loader removed material. taken to l pad reserve pit.	Interim Containment	Polymer drilling mud and formation cuttings splashed out when truck made a quick stop. Peak working for Conoco.
6/11/91	91360116203	ARCO Alaska, Inc.	y	DS 4, Gravel pad	Diesel	30	Not given. gravel taken to sowp.	Approved Landfill	On recorder.
6/30/91	91360918101	ARCO Alaska, Inc.	y	DS 3 Well 21, Contained on pad	Other	30	Super sucker used, taken to pad 3 sowp.	Approved Landfill	1/2 lb biozan gel.
8/15/91	91730122701	BPXA	y	F Pad N Road, Contained on pad	Diesel	30	Loader used, material taken to pad 3 owp.	Approved Landfill	Found during inspection.
8/30/91	91730224201	Halliburton Services	y	DS 17 Well 11, 8 x 3 ft gravel pad	Gelled water	30	Scraped, used super sucker. taken to arco pad 3.	Approved Landfill	Pump overpressured, blew valves.
9/24/91	91730926701	BPXA	y	M Pad methanol tank, Gravel pad	Methanol	30	Grader removed gravel, taken to tank at a3w2 for cleaning.	Interim Containment	Metering valve leak.
9/24/91	91730926702	BPXA	y	A Pad, Contained on pad	Methanol	30	Grader removed gravel, took to tank wash at a3w2.	Interim Containment	Metering valve leaked during transfer of fluid.
10/21/91	91730129401	Nabors Well Service	y	DS 4 Well 35, 30 x 30 gravel pad	Diesel	30	Material scraped up, reused in slop tank.	Recycled	Valve opened too much while blowing down injection line.
12/9/91	91730234301	Alaska Petroleum Contractors	y	DS 4 Well 7, 10 x 20 on gravel pad	Seawater	30	Scraped up with loader, taken to melter, will be injected arco pad 3.	Subsurface Injection	
1/11/92	92730901101	Halliburton Services	y	DS L4-2, 15 x 15 snow	Methanol	30	Shovels, super sucker used. taken to pad 3 for injection.	Subsurface Injection	50% methanol/50% water.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/10/92	92730104103	ARCO Alaska Inc.	y	DS L4 Well 12, Lined containment area	Crude	30	Pads, hand tools used. snow/gravel taken to pad 3, pads to nsb incin.	Multiple	O ring failure. Initially reported as 42 gal., then 126 gal., then final of 30 gal. Confusion in volume may be due to fact some of spill was in lined containment area.
2/18/92	92730104901	Alaska Petroleum Contractors	y	E. wing MCC parking lot, 100 sq ft ice on parking lot	Diesel	30	Absorbents used, loader removed snow. snow to ds maintenance snow melter, recycled. pads to approved site.	Multiple	
2/20/92	92730905101	ARCO Alaska Inc.	y	NGI, 10 x 15 snow on pad	Methanol	30	Absorbents used, lader & bucket. taken to pad 3 for inject.	Subsurface Injection	60% water, 40% methanol.
2/24/92	92730105501	ARCO Alaska Inc.	y	DS 3 Well 21, Contained on pad	Hydraulic oil	30	Shovels removed snow, took to melter, then injected pad 3.	Subsurface Injection	Final sent by Camco.
3/7/92	92730906801	BPXA	y	Z Pad Well 7, Contained on pad	Methanol	30	Contaminated snow/ice removed by loader. taken to t pad lined pit for summer removal.	Interim Containment	
3/30/92	92730109001	ARCO Alaska Inc.	y	DS 12 Well 9, Not given	Diesel	30	Cleanup not given, disposal not given.	Not Given	70% diesel, 30% methanol.
4/5/92	92730909601	Canadian Fracmaster	y	DS 16, 8 x 10 on ice	Methanol	30	Super sucker removed snow and product. recycled for cut water.	Recycled	
7/2/95	95399918303	BPXA	y	East Prudhoe Bay DS 18,	Hydraulic Oil	30	Took Report, Case Closed 07-02-95		Equipment Failure
8/10/95	95399922201	ARCO ALASKA INC.	y	East Prudhoe Bay, SURFCOTE,	Diesel	30	Took Report, Case Closed 01-00-00		Unknown
9/9/95	95399925201	BPXA	y	West Prudhoe Bay, N PAD WELL 26,	Hydraulic Oil	30	Took Report, Case Closed 01-00-00		Leak
9/24/95	95399926703	BPXA	y	West Prudhoe Bay, GC 1 SKID 302,	Other	30	Took Report, Case Closed 01-00-00		Overfill
1/7/96	96399900702	PEAK OILFIELD SERVICE	ym	West Prudhoe Bay, COLVILLE ICE ROAD, ICE ROAD SPILL	Diesel	30	Phone Follow-up, Case Closed 05-29-97		Line Failure
2/19/96	96399905002	BPXA	ym	West Prudhoe Bay, SKID 50/51,	Diesel	30	Took Report, Case Closed 01-00-00		Human Error
3/13/96	96399907303	BPXA	y	West Prudhoe Bay, GC 2,	Hydraulic Oil	30	Took Report, Case Closed 01-00-00		Line Failure
3/28/96	96399908801	ARCO	y	DS 3,	Produced Water	30	Took Report, Case Closed 01-00-00		Leak
9/9/96	96399925301	BPXA	y	PBU GC 1 SKID 326,	Crude	30	Took Report, Case Closed 01-00-00		Overfill
1/5/97	97399900502	BPXA	y	West Prudhoe Bay, Well Pad M,	Crude	30	Took Report, Case Closed 01-00-00		Valve Failure
9/10/97	97399925301	BPXA	ym	West North Slope. B.P. BALL MILL FACILITY.,	Other	30	Took Report, Case Closed 01-00-00		Leak
10/11/97	97399928401	NORDIC	y	West Prudhoe Bay, BP Well Pad H,	Produced Water	30	Took Report, Case Closed 01-00-00		Line Failure
11/10/97	97399931401	B.P.	y	West North Slope, B.P. Well Pad C (DOWELL),	Methyl Alcohol (Methanol)	30	Took Report, Case Closed 02-19-98		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/10/97	97399931402	NABORS ALASKA DRILING	y	EAST NORTH SLOPE, ARCO DS 15-08,	Seawater	30	Took Report, Case Closed 01-00-00		Overfill
2/13/98	98399904401	B.P.	y	West North Slope, B.P.Well Pad C.,	Crude	30	Took Report, Case Closed 03-02-98		Overfill
6/7/98	98399915801	ARCO	y	EAST NORTH SLOPE, DS 2.,	Crude	30	Took Report, Case Closed 01-00-00		Seal Failure
10/15/98	98399928801	BPXA	y	Well Pad R,	Other	30	Took Report, Case Closed 10-16-98		Valve Failure
10/18/98	98399929101	PEAK	y	Well Pad R,	Diesel	30	Took Report, Case Closed 10-18-98		Human Error
4/17/99	99399910701	VECO ALASKA, INC	ym	EAST NORTH SLOPE, DRILLSITE 16 TO WELLS SUPPORT SH,	Diesel	30	Took Report, Case Closed 04-17-99		Valve Failure
7/13/00	00399919501	DOWELL SCHLUMBERGET/PHILLIPS	y	East Prudhoe Bay, PHILLIPS DRILL SITES 15-37,	Hydraulic Oil	30	Phone Follow-up, Case Closed 10-04-00		Line Failure
10/15/00	00399928901	NABORS DRILLING/PHILLIPS	ym	West Prudhoe Bay, NABORS 19E/N PAD TARN SITE/2N-32,	Drilling Muds	30	Took Report, Case Closed 10-15-00		Cargo Not Secured
10/27/00	00399930102	SCHLUMBERGER/BP EXPLORATION	ym	East Prudhoe Bay, SCHLUMBERGER DOWELL FACILITY PAD,	Propylene Glycol	30	Took Report, Case Closed 10-27-00		Leak
2/18/01	01399904901	DOWELL SCHLUMBERGER/BPX ALASKA	y	East Prudhoe Bay, POINT MACINTYRE #2/30,	Methyl Alcohol (Methanol)	30	Took Report, Case Closed 03-04-01		Line Failure
3/1/01	01399906001	VECO/BP EXPLORATION (ALASKA)	y	West Prudhoe Bay, PAD Z, WELL 21,	Seawater	30	Took Report, Case Closed 03-04-01		Seal Failure
3/6/01	01399906503	PEAK OILFIELD/BP EXPLORATION ALASKA	ym	East Prudhoe Bay, FS2 PIPELINE ROAD,	Diesel	30	Took Report, Case Closed 03-15-01		Rollover/Capsize
6/10/01	01399916104	PETRO GEOPHYSICAL SERVICES	ym	East Prudhoe Bay DALTON HWY MI 413 (1.5 MILES) 411,	Hydraulic Oil	30	Took Report, Complaint/Report Received 06-10-01		Seal Failure
11/29/01	01399933301	BPXA	y	U Pad,	Drilling Muds	30	Took Report, Final Report 12-09-01		Equipment Failure
3/8/02	02399906701	DOWELL SCHLUMBERGER/BP EXPLORATION	y	Well Pad K,	Hydraulic Oil	30	Took Report, Final Report 03-08-02		Line Failure
3/27/02	02399908601	NABORS DRILLING/BP EXPLORATION	y	Well Pad X,	Diesel	30	Took Report, Case Closed 04-01-02		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/12/03	03399913201	BPXA	y	Drill Site 9 (DS-9),	Crude	30	Phone Follow-up, Case Closed 08-05-03		Seal Failure
5/18/03	03399913801	BPXA	y	Main Construction Camp (MCC),	Ethyl Alcohol (Ethanol)	30	Phone Follow-up, Case Closed 05-21-03		Equipment Failure
7/17/03	03399919801	BPXA	y	Well Pad S,	Diesel	30	Phone Follow-up, Complaint/Report Received 07-18-03		Equipment Failure
8/18/03	03399923001	VECO ALASKA INC.	y	Pad 3,	Hydraulic Oil	30	Took Report, Complaint/Report Received 08-19-03		Equipment Failure
5/8/04	04399912901	BPXA	y	East Prudhoe Bay, DRILL SITE 16,	Diesel	30	Phone Follow-up, Case Closed 05-10-04		Equipment Failure
3/21/05	05399908001	BPXA	y	Hot Water Plant,	Other	30	Phone Follow-up, Final Report 03-30-05		Human Error
4/15/05	05399910501	ConocoPhillips Alaska	ym	SPINE ROAD, DEADHORSE,	Hydraulic Oil	30	Took Report, Case Closed 04-21-05		Seal Failure
4/16/05	05399910602	BPXA	y	Drill Site 9 (DS-9),	Seawater	30	Took Report, Case Closed 04-21-05		Overfill
5/31/06	06399915103	BPXA	y	Well Pad D,	Diesel	30	Field Visit/s, Case Closed 06-06-06		Leak
6/7/06	06399915801	BPXA	y	Drill Site 15,	Hydraulic Oil	30	Took Report, Case Closed 07-05-06		Equipment Failure
06/15/07	07399916604	BPXA	y	East Prudhoe Bay, DRILLSITE 9, BP East Prudhoe Bay	Produced Water	30	Took Report, Final Report 06-25-07		Equipment Failure
09/29/07	07399927203	BPXA	Y	Drill Site 12, Drill Site 12	Emulsion Breaker	30	Field Visit/s, Case Closed 10-22-07		Human Error
3/20/00	00399908005	HOUSTON CONT/BP EXPLORATION	ym	West Prudhoe Bay, NORTHSTAR PIPELINE RIGHT OF WAY,	Diesel	28	Took Report, Case Closed 04-05-00		Leak
8/25/02	02399923703	ALASKA PETROLEUM CONTRACTORS	y	Well Pad Z-6,	Crude	28	Took Report, Case Closed 08-26-02		Overfill
1/28/91	91360202801	BPXA	y	Z Pad Well 13, Contained in snow/gravel on pad	Produced water	27	Snow, gravel removed with loader, taken to t pad.	Approved Landfill	25 gal. prod. water, 2 gal methanol.
5/3/81	81360112301	ARCO Alaska, Inc.	y	E. Dock Storage Area, Prudhoe, Gravel	Emulsion breaker	25	Vac truck, absorbents used, snow/gravel picked up, taken to pingut pit.	Approved Landfill	Entered 10-26-89 from old records. Product Arco Chemm (an emulsion breaker).
5/16/81	81360113602	Sohio	y	Stores Oil Yard, Prudhoe, Not given.	Other	25	Not given.	Not Given	Entered 10-26-89 from old records. Follow up 6-04-81. Product tetrolite.
4/7/82	82360109701	ARCO Alaska, Inc.	y	Central Compression Plant/Prudhoe, Contained on gravel pad & snow.	Engine lube oil	25	Front end loader and absorbents.	Approved Landfill	False indication of low lube oil on emergency generator& adding oil caused seal failure. Entered from old records 4-28-90.
6/15/83	83360116601	SOHIO	y	Stores Yard Tank Farm, PD, None, contained on pad.	Antifreeze	25	Vacuumed & taken to arco injection well.	Subsurface Injection	Type: Triethylene glycol. Entered from old records 6/26/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/27/83	83360917801	SOHIO	y	Stores Yard, Prudhoe, None, contained on gravel.	Other	25	Sorbents, gravel removed.	Not Given	Type: Visco ods-202. Entered from old records 6/26/90.
7/15/83	83360119601	SOHIO	y	X pad, outside Wellhouse, Unknown.	Diesel	25	Contaminated gravel removed.	Not Given	Cause: Suction pump backed up. Entered from old records 6/26/90.
9/19/83	83360126201	ARCO Alaska, Inc.	y/m	Found in gravel rd., None	Diesel	25	Sorbents	Unknown	Entered from old records 7/10/83.
10/17/83	83360929001	SOHIO	y	GC 2, Skid 22, None	Antifreeze	25	Soaked up with diatomite.	Unknown	Type: MEG. Also final report on 11/8/83. Entered from old records 7/10/90.
10/26/83	83360129901	SOHIO	y	K Pad, None, contained in snow.	Diesel	25	Scraped w/ loader, sorbents.	Unknown	Also final report on 11/8/83. Entered from old records 7/10/83.
3/11/85	85360107004	Sohio	y	GC-1 Skid 19,	Glycol	25	Con. snow scraped up		
10/3/85	85360127601	SOHIO Alaska Petroleum Company	y	C-Pad, C-2,	Crude	25	Soaked up w/absorbent pads/contaminated ice scrape		
10/20/85	85360129301	ARCO Alaska, Inc.	y	Lisburne Operation L-2 Pad,	Crude	25	Shoveled up snow/oil mixture		
10/31/85	85360130401	SOHIO Alaska Petroleum Company	y	GC-3, Skid 477,	Glycol	25	Contaminated snow was scraped up w/bucket loader		
5/23/86	86360114301	Sohio Alaska Petroleum Company	y	X Pad, Skid 56,	Crude	25	Scraped up contaminated snow	Interim Containment	
5/31/86	86360115101	ARCO Alaska, Inc.	y	DS L2,	Crude	25	Contaminated gravel and snow scraped up	Approved Landfill	
6/13/86	86360116401	Sohio Alaska Petroleum Company	y	F-24,	Diesel	25	Soaked up w/sorbents-contaminated gravel scraped	Incineration/approved Landfill	
6/26/86	86360117704	Sohio Alaska Petroleum Company	y	R Pad,	Transmission oil	25	Soaking up with sorbents	Incinerated	
10/28/86	86360130103	Standard Alaska Production Com	y	M-Pad, Skid 54,	Crude	25	Scraped up contaminated snow.	Interim Containment	
12/9/86	86360134301	Standard Alaska Production Com	y	V. M. S. Pad,	Hydraulic oil	25	Scraped up contaminated snow/soaked up w/sorbents	Interim Containment	
1/22/87	87360102201	Standard Alaska Production Com	y	BOC Maintenance Ramp,	Hydraulic oil	25	Contaminants scraped up	Incinerated	
3/10/87	87360106902	VECO,Inc.	y	ARCO Oily Waste Injection Fac.,	Diesel	25	Vacuumed liquid-soaked w/sorbents-scraped up cont.	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/12/87	87360125501	Standard Alaska Production Com	y	N Pad, Skid 54, Area outside skid building	Crude	25	Contaminated gravel scraped up	Approved Landfill	
12/11/87	87360134501	ARCO Alaska, Inc.	y	DS 2,	Crude	25	Contaminated snow scraped up	Interim Containment	
1/25/88	88360102501	Standard Alaska Production Com	y	S-48,	Methanol	25	Contaminants scraped up	Interim Containment	
5/13/88	88360113401	Standard Alaska Production Com	y	D-Pad,	Hydraulic oil	25	Soaked up with sorbents-contaminants scraped up	Sorb Incinerated-contams To Nsb	
6/19/88	88360117101	ARCO Alaska, Inc.	y	DS L2,	Diesel	25	Used vacuum truck & sorbents	Approved Landfill	
7/9/88	88360119108	Standard Alaska Production Com	y	C Pad near Wellhouse $7, contained on pad	Diesel	25	Sorbents/ gravel removed	Incineration/approved Landfill	Diesel blew out of tanks.
7/10/88	88360119202	Standard Alaska Production Com	y	BOC Fuel Dock, contained on gravel pad	Diesel	25	Absorbents/ gravel picked up	Incineration/approved Landfill	
7/15/88	88360119707	ARCO Alaska, Inc.	y	Access Road to DS 3, contained on pad	5% oil and 95% water	25	Loader used to pick up contaminated gravel	Approved Landfill	
9/3/88	88360124702	ARCO Alaska, Inc.	y	DS 12, Well 9, contained on pad	92% seawater/ 8% surfactant	25	Absorbents used/loader removed contaminated gravel	Incineration/approved Landfill	Material blew out of pumpwhile pump being primed.
10/11/88	88360128501	SAPC Endicott	y	M Pad, Well M-18, contained on pad	Hydraulic oil	25	Oil picked up, placed in plastic bags	Incinerated	ruptured hsoe lineon Camco wireline unit
11/18/88	88360132304	SAPC Endicott	y	Well M-18, contained in snow on pad	Acid	25	Loader used on snow	Other	vac truck overpressured during well work
11/21/88	88360132601	SAPC Endicott	y	Well R-9, not given	Diesel	25	Absorbents used on diesel	Incinerated	stem on 3 inch valve broke
12/2/88	88360133702	SAPC Endicott	y	GC-2 Skid 22, contained on pad	Glycol	25	Material shoveled up, removed from pad	Other	
12/17/88	88360135203	ARCO Alaska, Inc.	y	COTU Fuel Terminal, contained on pad	Diesel	25	Snow cleaned up with absorbents	Incinerated	overflow of tanker truck
12/31/88	88360136605	SAPC Endicott	y	Well Z-8, contained on pad	Drilling muds	25	Acid neut., diluted w/soda ash; loader on snow	Unknown	2 inch tree cap failed on well; nipple sheared
1/4/89	89360100401	VECO	y	ARCO Fuel dock, Prudhoe, on pad	Diesel	25	Absorbents/loader picking up snow and gravel	Approved Landfill	call taken by Pat Gleason 1/4/89
1/4/89	89360100403	VECO	m	ARCO Fuel Dock, on gravel pad	Diesel	25	Absorbents used/gravel picked up		

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/14/89	89360101401	ARCO Alaska, Inc.	y	DS L5, Well 25, snow on top of gravel pad	Crude	25	Loader used to scrape up contaminated snow	Recycled	Top hatch left open.
1/23/89	89360102302	ARCO Alaska, Inc.	y	DS L4, Well 18, in and around the well house	Hydraulic oil	25	Absorbent pads/loader used to scrape up snow	Multiple/see Disposal	while engaging wireline unit, filter seal blew out
2/8/89	89360103904	ARCO Alaska, Inc.	y	DS 7 next to Manifold Bldg, 100' x 50' area of snow	Crude	25	Snow scraped up by loader	Approved Landfill	venting separator to relief pit trying to close K-valve for test
3/27/89	89360108603	BPXA	y	GC 2, Tank 407, None. All contained in snow and ice on pad	Crude	25	Snow/ice scraped up with loader and shovels. taken to gc-2 for melting and recovery.	Recycled	Hose split on CWC vac truck while offloading.
4/28/89	89360111804	BPXA	y	D-22, contained on pad	Diesel	25	Loader used to remove material, melted for recovery.	Recycled	Contract crew on site separated diesel line they thought was empty. Fuel in line released onto pad.
4/30/89	89360112002	BPXA	y	Ground level below U305, alcove area	Seawater	25	Removed gravel, washed. recycled liquid to dirty water tank	Recycled	Heat exchanger began leaking seawater from upper portion, overflowed drip pan into alcove, then migrated to grade level through module joint connection.
5/6/89	89360112602	BPXA	y	BOC Fuel Pumps, contained in ice and snow on pad	Diesel	25	Absorbents used on pooled fuel, snow scraped up with loader. snow and ice to melter for recovery.	Recycled	Nozzle failed on pump hose.
5/8/89	89360112803	BPXA	y	Well G-11, contained in ice and snow on pad	Diesel	25	Contaminated snow and ice scraped up with loader, taken to melter for recovery.	Recycled	valve left open on hot oil svcs filter unit
5/8/89	89360112804	BPXA	y	Well G 11, contained on pad	Diesel	25	Grader and loader used on snow and ice. taken to melter for recovery.	Recycled	Valve left open on Hot Oil Service filter unit.
5/29/89	89360114904	ARCO Alaska, Inc.	y	Pad 3 Injesction Facility, solid OW pit, contained on pad	Other	25	Contaminated gravel removed, deposited in sowp at pad 3.	Approved Landfill	Initial report never entered.
6/18/89	89360116903	ARCO Alaska, Inc.	y	FS 1, Contained on pad	Other	25	Vac truck used, fluid recycled at fs 1.	Recycled	Material was reserve pit water and sheen from leaking fitting on tanker truck.
6/20/89	89360117204	BPXA	y	M Pad, 200 x 50 ft tundra, snow and puddles sheened.	Diesel	25	Area surrounded with sorbent boom. sheens removed with sorbents, snow removed with shovels. sorbent incinerated, snow to a3w3 melter.	Multiple	20 gal diesel, 5 gal lube oil pushed off pad during snow removal. Contaminants forming sheen in puddles. Tundra affected.
8/11/89	89360122302	BPXA	y	GC 2 Access road, contained on gravel on road.	Hydraulic oil	25	Gravel removed with shovels and loader, taken to lined berms on santa fe pad.	Approved Landfill	Hydraulic hose broke on vacuum truck.
8/14/89	89360122602	ARCO Alaska, Inc.	y	DS 17, Well 5, contained in puddles on pad	Diesel	25	Absorbents and super sucker used. sorbents to nsb incin. gravel to nsb sowp.	Multiple	While bleeding gas from well, fluid also released and sprayed out return tank vent.
11/8/89	89360131204	BPXA	y	R-5, Contained on pad	Diesel	25	Sorbents used, taken to nsb. snow added to rig 16 slop water tank, melted and injected. some gravel removed to nsb landfill.	Multiple	Frozen line to tiger tank pressurized and separated from fittings.
11/13/89	89360131704	ARCO Alaska, Inc.	y	DS 14 Well 28, Contained on pad	Diesel	25	Super sucker removed gravel, taken to nsb sowp.	Approved Landfill	While bleeding off hose, camlock came loose. Mixture 99% diesel, 1% crude.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/20/89	89360132402	BPXA	y	Vehicle Maintenance Shop, Contained in snow on pad	Hydraulic oil	25	Snow removed by loader, taken to lined berm at santa fe pad for recovery in snow melter.	Recycled	Hose broke on cran while being moved.
11/30/89	89360933401	BPXA	y	GC 3, Skid 481, Contained on pad	Antifreeze	25	Liquid recovered, gravel removed. liquid recycled, gravel to nsb.	Multiple	Heat trace tubing ruptured on line to storage tanks.
12/3/89	89360133701	ARCO Alaska, Inc.	y	U 21 bldg, Contained on gravel floor inside building	Diesel	25	Gravel removed, taken nsb sowp.	Approved Landfill	Valve not closed completely on parked fuel truck.
12/4/89	89360133801	ARCO Alaska, Inc.	y	Pipeline road between FS 1 and FS 2, Contained on gravel road	Hydraulic oil	25	Gravel removed, taken nsb sowp.	Approved Landfill	Plug came out of hydraulic pump on snow blower while clearing snow.
12/12/89	89360134602	ARCO Alaska, Inc.	y	DS 11 Well 28, Contained on pad	Diesel	25	Snow removed, melted, injected at pad 3.	Subsurface Injection	Diesel spilled out vent pipe of tanker during transfer from storage tank.
1/14/90	90360901401	ARCO Alaska, Inc.	y	DS 11 Well 5, Contained on pad	Methanol	25	Super sucker used to remove snow and free methanol. material taken to storage tank for reuse.	Recycled	Rubber gasket on suction hose leaked.
1/14/90	90360901402	ARCO Alaska, Inc.	y	DS 14 Well 37, Contained on pad	Corrosion inhibitor	25	Absorents used, super sucker removed free liquid and gravel. sorbents to nsb burnable dumpster, gravel to nsb.	Incineration/approved Landfill	While loading into tank, employee left to check on another job and C 129 corrosion inhibitor spilled.
1/17/90	90360901701	ARCO Alaska, Inc.	y	DS 15, Contained on snow covered pad.	Methanol	25	Loader with bucket removed contaminated snow, melted and taken to pad 3 for injection.	Subsurface Injection	During wireline operation, bleeder valve left open. Product spilled was 60% methanol, 40% water.
1/25/90	90360202501	ARCO Alaska, Inc.	y	DS L3, Contained on pad	Seawater	25	Snow/frozen seawater removed with loader. taken to ds maintenance yard, recylced.	Recycled	Ice plug in hose blew out, causing hose to disconnect from tanker.
2/11/90	90360104202	ARCO Alaska, Inc.	y	J Pad, Contained on pad	Hydraulic oil	25	Snow removed, taken to pad 3 for injection.	Subsurface Injection	Pump cracked.
5/4/90	90360912403	ARCO Alaska, Inc.	y	DS 9, Contained on pad	Methanol	25	Frozen material picked up, melted, recycled.	Recycled	Mixture 60% methanol, 40% water.
6/13/90	90360116402	ARCO Alaska, Inc.	y	DS 13 Well 9, Contained on pad	Hydraulic oil	25	Gravel removed, taken to pad 3.	Approved Landfill	Oil filter gasket failed.
7/13/90	90360119404	BPXA	y	M Pad Well 18, Contained on pad	Crude	25	Vac truck used on pooled oil, gravel removed by loader, shovels. oil to gc 1 ullage tank for re-processing. gravel to arco pad 3.	Multiple	Line valve behind well house leaked.
7/28/90	90360120903	ARCO Alaska, Inc.	y	DS L2, Contained on pad	Crude	25	Gravel removed, taken to pad 3.	Approved Landfill	Valve on hot oil truck not closed.
9/26/90	90360226901	VECO	y	SIP, Contained on pad	Seawater	25	Pad flushed with water, vac truck removed fluid, injected at pad 3.	Subsurface Injection	
11/20/90	90360232401	ARCO Alaska, Inc.	y	DS 9 Well 3, Contained on snow on pad	Seawater	25	Loader, shovels removed material. taken to pad 3.	Approved Landfill	High winds blew material out of cutting box.
11/22/90	90360932601	BPXA	y	G Pad Well 30, Snow and gravel on pad	Methanol	25	Snow/gravel removed by loader, taken to pad 3 pit.	Approved Landfill	Mixture 3 gal methanol, 22 gal seawater.
11/25/90	90360132901	BPXA	y	X Pad Well 10, Snow on pad under trailers	Diesel	25	Snow/gravel removed by loader, taken to melter at a3w2 for recovery.	Recycled	Diesel/methanol leaked from pipe fittings.
1/1/91	91360100102	BPXA	y	W Pad Access Road, Contained in snow/ice on road	Crude	25	Grader removed snow/ice. taken to t pad pit.	Interim Containment	Residual crude and diesel leaked from hose on truck leaving area.
1/6/91	91360100602	BPXA	m	Module 603, Contained on pad	Diesel	25	Scalped snow/gravel, placed in melt tank.	Interim Containment	Level instrument failure.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/23/91	91360108203	Halliburton	y	DS 3 Well 20, 1/4 cu yd snow	Diesel	25	Absorbents used, snow removed to melter. arco will dispose of at pad 3.	Approved Landfill	Frac tank overfilled.
4/10/91	91360210001	ARCO Alaska, Inc.	y	Pad 3, Contained on pad	Seawater	25	Loader removed snow, melted, taken to pad 3 for injections.	Subsurface Injection	95% seawater, 5% crude.
4/13/91	91360110302	ARCO Alaska, Inc.	y	FS 1, Flare pit	Other	25	Material burning at time of release.	None Required	90% natural gas liquid, 10% TEG. Disk ruptured from previous spill leaving residual in line which released and flared.
4/23/91	91360911301	BPXA	y	Pad A methanol tank, Contained in snow on pad	Methanol	25	Snow/gravel removed with loader, taken to t pad pit.	Approved Landfill	Leak in tank hook-up valve area.
6/8/91	91360515901	Peak Oilfield Services	y	DS 4, Gravel pad	Cement	25	Vac truck, absorbents used. materials reused, pads incin. at nsb.	Multiple	Cement/water/borax mix.
6/9/91	91360116008	BPXA	y	WSW, E. of skid 71, Edge of pad, adjacent ice & snow	Diesel	25	Backhoe removed contaminants, taken to t pad lined pit for summer recovery.	Interim Containment	Found during inspection.
6/18/91	91360116904	Peak Oilfield Services	y	I-J Intersection, 200 sq ft gravel road	Hydraulic oil	25	Gravel removed, area resurfaced. gravel to j pad berm.	Interim Containment	Gravel and road bed resurfaced.
7/9/91	91360919001	BPXA	y	W Pad turbine mod. area, 10 x 20 total includes tundra	Other	25	Loader, guzzler, dump truck removing material. will take to a3w2 for washing.	Interim Containment	Drum of antifoam ruptured. Small area tundra affected. Final report expected within 10 days. Area stabilized.
7/13/91	91360119403	ARCO Alaska, Inc.	y	Hot Water Plant, 3 x 3 gravel pad	Transformer oil	25	Shovels, loader removed gravel. gravel to pad 3 sowp.	Approved Landfill	Leaks over period of time.
8/21/91	91730123301	BPXA	y	P Pad Well 3, Contained on pad	Diesel	25	Gravel removed with loader, taken to t pad.	Approved Landfill	Wireline units working in area.
8/22/91	91730123402	BPXA	y	GC 2 near guard house, Contained on pad	Crude	25	Loader removed gravel. gravel taken to arco pad 3.	Approved Landfill	Discoverd during inspection.
9/8/91	91730925101	ARCO Alaska, Inc.	y	CGF, Gravel pad	Antifreeze	25	Shovels removed gravel. taken to pad 3 sowp.	Approved Landfill	Connection on heat trace line ruptured due to corrosion.
2/13/92	92730104402	Camco	m	Camco Pad, Prudhoe, 40-50 sq ft frozen snow	Hydraulic oil	25	Sorbents used, snow dug up. sorbents to bpx disposal, snow melted, skimmed. water into tank at camco.	Multiple	
2/21/92	92730105202	ARCO Alaska Inc.	y	DS 1 Well 30, 6 x 6 sq ft	Crude	25	Snow, material removed, taken to fs 1 for recycle.	Recycled	80% fresh water, 20% crude.
3/7/92	92730106702	BPXA	m	Remote location, Unknown	Transmission oil	25	Contaminated snow removed, hauled to nsb incinerator.	Incinerated	Leak discovered at overnight parking spot.
4/24/92	92730911503	BPXA	y	C Pad Well 13, Contained on pad	Methanol	25	Loader and dump used, snow taken to melter at a3/w2.	Approved Landfill	Possible gas migration from coil.
7/26/95	95399920702	BPXA	y	West Prudhoe Bay, H PAD,	Hydraulic Oil	25	Took Report, Case Closed 01-00-00		Line Failure
8/15/95	95399922702	ARCO ALASKA INC.	y	East Prudhoe Bay, DS 6,	Crude	25	Field Visit/s, Case Closed 03-14-97		Unknown
11/13/95	95399931701	PRODUCTION TESTING SERVICES	y	East Prudhoe Bay, DS 18 WELL 10,	Crude	25	Took Report, Case Closed 01-00-00		Human Error
8/21/96	96399923401	BPXA	y	H PAD SKID 57,	Crude	25	Took Report, Case Closed 01-00-00		Overfill

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/7/96	96399934201	ARCO	y	East Prudhoe Bay, CCP,	Hydraulic Oil	25	Took Report, Case Closed 01-00-00		Line Failure
4/16/98	98399910602	B.P.	y	West North Slope, B.P. Well Pad N.,	Crude	25	Took Report, Case Closed 01-00-00		Leak
5/15/98	98399913501	B.P.	ym	EAST NORTH SLOPE, B.P. DOYON RIG 16.,	Other	25	Took Report, Case Closed 01-00-00		Cargo Not Secured
4/19/99	99399910901	ARCO ALASKA	ym	West North Slope, KUPARUK, 3K WELL 5 HOUSE,	Produced Water	25	Took Report, Case Closed 04-19-99		Unknown
6/15/99	99399916602	BPXA	ym	West Prudhoe Bay, GC-3 PAD,PIPE RACK BETWEEN SKID,	Ethylene Glycol (Antifreeze)	25	Took Report, Case Closed 06-15-99		Line Failure
9/15/99	99399925801	ARCO	y	ARCO, COTU,	Diesel	25	Took Report, Case Closed 09-22-99		Overfill
10/12/99	99399928501	BPXA	y	West North Slope, BC-3 PAD SKID 41,	Ethylene Glycol (Antifreeze)	25	Took Report, Case Closed 10-14-99		Overfill
3/20/00	00399908003	ARCO ALASKA	ym	East Prudhoe Bay, LPC UNLINED LIQUID FLARE PIT,	Crude	25	Field Visit/s, Case Closed 07-07-00		Equipment Failure
4/29/00	00399912002	ARCO ALASKA	y	East Prudhoe Bay, LPC FLARE PIT,	Crude	25	Took Report, Case Closed 07-08-00		Equipment Failure
12/30/00	00399935501	NABORS DRILLING/BP EXPLORATION	y	West Prudhoe Bay, Well Pad S,	Drilling Muds	25	Took Report, Complaint/Report Received 12-30-00		Overfill
3/21/01	01399908002	ALASKA PETROLUEM CONTRACTORS	y	West Prudhoe Bay, CENTRAL POWER STATION,	Engine Lube Oil	25	Took Report, Case Closed 03-21-01		Cargo Not Secured
11/12/01	01399931601	HALLIBURTON ENERGY SER/BPX	y	W PAD,	Hydraulic Oil	25	Took Report, Complaint/Report Received 11-13-01		Line Failure
8/16/02	02399922802	BPXA	y	Lisburne Production Center (LPC),	Hydraulic Oil	25	Took Report, Complaint/Report Received 08-20-02		Equipment Failure
10/8/02	02399928101	VECO ALASKA, INC.	y	West Prudhoe Bay, J PAD,	Methyl Alcohol (Methanol)	25	Took Report, Final Report 10-08-02		Human Error
12/11/03	03399934501	BPXA	y	Seawater Injection Plant (SIP),	Seawater	25	Took Report, Case Closed 12-12-03		Human Error
8/22/04	04399923503	BPXA	y	Oxbow Road,	Crude	25	Took Report, Case Closed 08-30-04		Unknown
9/21/04	04399926501	BPXA	y	Seawater Injection Plant (SIP),	Seawater	25	Took Report, Case Closed 09-24-04		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/9/05	05399909901	BPXA	y	Oxbow Road,	Hydraulic Oil	25	Took Report, Case Closed 04-13-05		Line Failure
5/1/05	05399912103	BPXA	ym	WEST OPERATING AREA, ACCESS ROAD,	Hydraulic Oil	25	Took Report, Case Closed 05-03-05		Line Failure
1/20/06	06399902001	BPXA	y	Drill Site 11, DS 1 Seawater Release, EOA	Seawater	25	Phone Follow-up, Case Closed 01-31-06		Corrosion
4/30/06	06399912001	BPXA	y	Central Compressor Plant (CCP), CCP Diesel Release	Diesel	25	Took Report, Case Closed 05-03-06		Puncture
6/3/06	06399915402	BPXA	y	Drill Site 15,	Diesel	25	Phone Follow-up, Case Closed 06-24-06		Leak
09/03/07	07399924604	BPXA	y	Main Construction Camp (MCC),	Glycol, Other	25	Took Report, Case Closed 09-12-07		Seal Failure
10/9/90	90360128201	BPXA	y	J Pad Skid 24, Gravel pad	Diesel	24	Shoveled gravel/snow. snow/gravel to a3/w2 for washing. liquid injected	Multiple	50/50 corexit and diesel.
1/24/91	91360202401	ARCO Alaska, Inc.	y	DS 1 near manifold bldg, Frozen snow atop tundra. Did not reach tundra.	Seawater	24	Hand shovels and picks used. material melted and recycled fs 1.	Recycled	Leaking flange.
1/20/03	03399902003	BPXA	y	GC 1,	Produced Water	24	Took Report, Case Closed 02-03-03		Line Failure
1/8/89	89360100803	ARCO Alaska, Inc.	y	DS 2, Well 14, 6'x6' area on pad/ North end of pad	Hydraulic oil	23	Loader used to remove material and con. snow	Recycled	while purging system, hose ruptured on pump spraying material onto pad
5/23/05	05399914302	BPXA	y	West Prudhoe Bay SPINE RD,	Hydraulic Oil	23	Took Report, Case Closed 05-25-05		Line Failure
8/5/87	87360121702	ARCO Alaska, Inc.	y	DS 6, Well 3,	Hydraulic oil	22	Soaked up with sorbents	Incinerated	
6/26/88	88360117806	ARCO Alaska, Inc.	y	DS 2, Well 26,	Unknown	22	Shovels, water sorbents, and rakes	Incinerated	Cause:faulty o-ring on squeeze manifold system.Oiltype:seawater
1/3/89	89360100307	ARCO Alaska, Inc.	y	DS 9, Well 28, southwest corner of pad	Crude	22	Absorbents/handshovels -picked up snow & material	Incinerated	while freeze protecting a well, a hardline seal blew out spraying pad
8/21/89	89360123301	ARCO Alaska, Inc.	y	DS 12, Contained on pad	Produced water	22	Super sucker removed water and gravel, taken to pad 3 for disposal.	Approved Landfill	Tank overflowed while pigging line.
8/21/89	89360123306	ARCO Alaska, Inc.	y	DS 12, contained on pad	Other	22	Super sucker used for water and gravel. taken to pad 3.	Approved Landfill	Water overflowed receiving tanks during pigging operation.
12/31/89	89360136502	BPXA	y	Well J-24, Contained in snow around well house.	Crude	22	Loader scraped up snow, taken to t pad sowp for recovery.	Recycled	Cold Weather Contractors left valve open on vac truck while disconnecting hoses. 11 gal each crude/diesel spilled.
2/13/00	00399904401	BAROID DRILLING	y	PRUDHOE BAY, MIXING BAY FLOOR AT MUD PLANT,	Other	22	Took Report, Case Closed 02-14-00		Leak
6/28/05	05399917902	BPXA	y	Gathering Center 1 (GC-1),	Engine Lube Oil	22	Took Report, Case Closed 06-30-05		Corrosion
02/05/07	07399903601	BPXA	y	W PAD,	Other	22	Took Report, Case Closed 02-07-07		Valve Failure
1/21/81	81360102104	Sohio	y	GC 2, Skid 25 Prudhoe, Not Given.	Crude	21	Not given.	Not Given	Entered 9-25-89 from old records.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/6/81	81360106502	Sohio	y	F-10, F Pad, PBF, Not given.	Crude	21	Not given.	Not Given	Entered 9-27-89 from old records. Follow up 4-6 and 4-8-81.
3/10/81	81360106901	Sohio	y	GC 2, Skid 25, PBF, Not given.	Crude	21	Not given.	Not Given	Entered 9-27-89 from old records. Follow up 4-1 and4-6-81
11/28/81	81360133201	ARCO Alaska, Inc.	y	DS 9, Still water	Crude	21	Vac truck, absorbents and hot water used. recovered material injecte.	Subsurface Injection	Entered 2-16-90 from old records. Frozen line on Oilfield Services truck caused spill to still water at site.
3/18/87	87360107701	ARCO Alaska, Inc.	y	DS L1,	Diesel	21	Contaminants scraped up	Subsurface Injection	
3/1/88	88360106101	ARCO Alaska, Inc.	y	DS Maintenance Yard, Area around vacuum truck being cleaned	Crude	21	Contaminants scraped up	Interim Containment	
4/6/89	89360109603	ARCO Alaska, Inc.	y	Hot Water Plant, Contained on snow on pad	Crude	21	Loader scraped up material. taken to snow melter, then injected at pad 3.	Subsurface Injection	50% crude, 50% hot water spilled when sight valve gave incorrect reading and tank overfilled.
3/28/90	90360908701	Arctic Coiled Tubing	m	State Test Well #1, Snow on ice road	Other	21	Loader scraped up contaminated snow, melted at arco's facility, will recycle at 2z.	Recycled	Coiled tubing broke, spilling Xylene. ARCO handled cleanup.
10/20/90	90360229901	Alaska Petroleum Contractors	y	SIP, Gravel and ice	Seawater	21	Loader and super sucker used. pad 3 swp.	Approved Landfill	Wave action while loading truck with no baffle or vent pipe.
11/7/90	90360231101	ARCO Alaska, Inc.	y	DS 2 Well 19, Snow/ice	Seawater	21	Loader removed ice/snow, melted, taken to pad 3.	Approved Landfill	Steam coil developed hole and material leaked out.
11/25/90	90360932902	B.J. Services	y	DS 3 Well 26, Ice	Other	21	Vac truck used, taken to pad 3.	Approved Landfill	1/2 lb per barrel biozan (zanthan gel) spilled when valve bumped open.
2/13/91	91360904402	Nabors Alaska Drilling 2E	y	DS 1 Well 1-B, 7 x 19 on gravel pad	Antifreeze	21	Absorbents used, shovel. put in drums. sorbents incinerate nsb, gravel to pad 3.	Incineration/approved Landfill	Leaking clamp spilled 50/50 glycol/water.
3/10/91	91360206903	Conoco	y	I Pad, Snow/ice on gravel	Other	21	Shoveled up, returned to bermed area around tank.	Interim Containment	Mixture frac gel and water.
3/29/91	91360908802	BPXA	y	A Pad methanol tank, Contained on pad	Methanol	21	Sorbents, shovels, ice bars and loader. melted at cwc shop. disposal not given.	Not Given	
3/29/91	91360908803	BPXA	y	A Pad methanol tank, Contained on pad	Methanol	21	Sorbents, shovels, ice bars and loader. melted at cwc shop. disposal not given.	Not Given	
4/2/91	91360509201	VRCA Environmental	y	DS L1, Gravel pad	Drilling muds	21	Loader removed material, put into cuttings pit at ds l1.	Interim Containment	Super sucker spilled.
4/12/91	91360110201	Conoco	y	J Pad, Snow/ice on gravel	Diesel	21	Material scraped up with shovels, loader. taken to temp storage berm.	Interim Containment	Tubing pump broke off tree.
6/1/91	91360115202	VECO	m	E Pit, Ice on gravel pad	Crude	21	Dike built around area. absorbents, vac truck used. gravel removed by shovels or loader. oily waste injected, gravel to 1h pad.	Multiple	Leaked out of lined dike.
7/20/91	91360220101	Dowell Schlumberger	y	DS 7 Well 15, 3 x 8 gravel	Seawater	21	Gravel shoveled up. put in ds dumpster.	Approved Landfill	
8/5/91	91730121701	Nabors	y	DS 7 well 17, 4 cy gravel	Condensate	21	Absorbents, shovels, loader used. gravel to pad 3 sowp, pads incin. nsb.	Approved Landfill	50% condensate/50% seawater. spilled due to improper adjustment of ice plug. Final sent by ARCO.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/17/91	91730126001	Alaska Petroleum Contractors	y	DS 9 Well 22, 6 x 15 gravel pad	Crude	21	Absorbents, supersucker used. sorbents to nsb incin., gravel to pad 3.	Incineration/approved Landfill	On recorder.
12/20/91	91730135401	BPXA	y	Y Pad Well 23, Contained on pad	Crude	21	Shovels, loader, absorbents used. contaminants taken to gc2 for down hole disposal.	Subsurface Injection	
11/22/96	96399932701	VECO	y	Flow Station 1 (FS-1),	Crude	21	Phone Follow-up, Case Closed 01-00-00		Equipment Failure
3/26/99	99399908501	BPXA	y	BP, Well Pad K,	Source Water	21	Phone Follow-up, Case Closed 01-00-00		Human Error
12/15/80	80360135003	ARCO Alaska, Inc.	y	Pad 3 Oily Waste, Prudhoe, Contained on snow covered pad	Diesel	20	Vac truck, absorbents used. free oil injected, absorbents incinerated, dirty snow to pingut pad.	Multiple	Data entered 9-22-89 from handwritten reports. Mixture diesel/oil phase mud spilled when back flow thru check valve failed.
1/18/81	81360901801	Sohio	y	Well B 14, Prudhoe, Not given.	Acid	20	Not given.	Not Given	Entered 9-25-89 from old records. Product acid/water EDTA.
1/21/81	81360102101	Sohio	y	C Pad, C-8 Prudhoe West, Not Given.	Diesel	20	Not given.	Not Given	Entered 9-25-89 from old records.
1/27/81	81360102701	Sohio	y	GC 1, Skid 18, Not Given.	Engine lube oil	20	Not given.	Not Given	Entered 9-25-89 from old records.
4/11/81	81360110101	Sohio	m	Sag 8 Well Site, Not given.	Crude	20	Not given.	Not Given	Entered 10-24-89 from old records. Follow up dates 5-4-81 and 7-27-81.
7/2/81	81360118301	Sohio	y	N Pad, Prudhoe, Not given.	Crude	20	Not given.	Not Given	Entered 10-30-89 from old records. Follow up 8-7 and 9-23-81. Emulsified crude.
7/9/81	81360119002	ARCO Alaska, Inc.	y	Pingut Pad, Surfcote Storage Pad, Sandy area	Crude	20	Absorbents used on free oil. pads burned at nsb incinerator, oil/sand returned to pingut pit.	Multiple	Entered 10-30-89 from old records. Follow up 10-22-81. Level in pit maintained at too high a level. Liquid migrated through upper layer of gravel dike wall.
8/16/81	81360122801	Sohio	y	GC 3, Skid 30, Not given.	Other	20	Not given.	Not Given	Entered 11-2-89 from old records. Follow up 11-11-81. Product Tretolite.
8/29/81	81360124101	Sohio	y	GC-3, Skid 8A, Not given.	Crude	20	Not given.	Not Given	Entered 11-17-89 from old records. Follow up 9-2 and telex 11-12-81.
12/8/81	81360134202	Sohio	y	F Pad near Skid 54, Not given.	Engine lube oil	20	Not given.	Not Given	Entered 2-20-90 from old records. Follow up date 12-09-81 and 1-6-82.
1/22/82	82360102201	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK, Graveled area under tank.	Gasoline	20	Removed gas/snow mix w/ shovels and fork lift bucket.	Approved Landfill	Entered 4-28-90 from old records.
1/31/82	82360903101	Sohio	y	GC 1 Skid 30, 31, Not given	Emulsion breaker	20	Not given.	Not Given	Entered 5-8-91 from old records.
2/17/83	83360104801	SOHIO	y	J Pad, Skid 54, Unknown	Crude	20	55 gal. barrels & sorbents. disposal: nsb incinerator.	Incinerated	Cause: Leaking lines & flanges.Entered from old records 6/16/90.
2/18/83	83360104902	SOHIO	y	BOC Gasoline Fuel Area, No enviro damage	Gasoline	20	Absorbents used, put in 55 gal. drums, taken to c pad.	Interim Containment	Cause: Accident w/ pump hose.Entered from old records 6/16/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/4/83	83360112401	SOHIO	y	Skid 54, R Pad, Prudhoe Bay, Unknown.	Crude	20	Sorbents; shoveled ice.	Not Given	Cause: Spilled steam clean water.Entered from old records 6/25/90.
5/18/83	83360113801	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU, PAD	Diesel	20	Sorbents		
5/18/83	83360113806	ARCO Alaska, Inc.	y	COTU SSY Prudhoe Bay, Remained on pad.	Diesel	20	Sorbents.	Not Given	Cause: leaking pipe elbow. Entered from old records 6/25/90.
6/18/83	83360116901	SOHIO	y	A Pad, S of SW Exten, Prudhoe, 30' x 50' tundra.	Diesel	20	Sorbents, trim grass.	Not Given	Entered from old records 6/26/90.
6/21/83	83360117201	SOHIO	y	BOC Field Service Shop, None, contained on pad.	Diesel	20	Gravel excavated.	Not Given	Entered from old records 6/26/90.
6/25/83	83360117601	Rowen Drilling	y	Drilling Yard, Prudhoe, None, on pad.	Diesel	20	Removing gravel.	Not Given	Final report also on 7/19/83. Entered from old records 6/26/90.
7/4/83	83360118501	SOHIO	y	NW/NW C Pad Reserve Pit, Little.	Crude	20	P/u & shoveled into bags.	Not Given	Cause: weather. Entered from old records 6/26/90.
8/6/83	83360121802	Mukluk Oilfield Sevice	y	MPS, Pad 2, West Dock, Unknown	Antifreeze	20	Vacuum, sorbents.	Unknown	Entered from old records 7/5/90. Cause: Tank lid loose.
10/5/83	83360127802	SOHIO	y	Well D-16, Prudhoe Bay, None	Diesel	20	Sorbents	Unknown	Also report on 11/8/83. Cause: Leaking flange. Entered from old record 7/10/83.
10/19/83	83360129202	SOHIO	y	Well F 17, Prudhoe, None	Diesel	20	Shoveled up.	Unknown	Cause: Flange leaked. Also final report on 11/8/83. Entered from old records 7/10/90.
10/20/83	83360129302	SOHIO	y	Well F 9, Prudhoe, None	Hydraulic oil	20	Sorbents.	Unknown	Entered from old records 7/10/90.
1/26/85	85360102601	Sohio	y	GC-1 WSW Skid 304,	Engine lube oil	20	Removed contaminates		
2/1/85	85360103202	Sohio	y	GC-2 Skid,	Crude	20	Con. snow scraped up		
2/4/85	85360103501	Sohio	y	Skid 50,	Glycol	20	Floor dry spread, con. snow scraped up		
2/25/85	85360105603	Sohio	y	GC-1 Skid 477,	Glycol	20	Con snow scraped up		
3/20/85	85360108002	Sohio	y	GC-1 Skid 41,	Methanol	20	Shoveled up contaminated snow & ice		
3/27/85	85360108601	Sohio	m	#5 well,	Crude	20	Front end loader picked up snow & ice		
4/11/85	85360110101	Sohio	y	GC-1 Skid 6,	Crude	20	Vac truck, sorbents, frontend loader scraped snow	Subsurface Injection	
5/15/85	85360113504	Sohio	y	Y-Pad, skid 54,	Glycol	20	Snow and gravel scraped up with bucket		
7/15/85	85360119602	ARCO Alaska, Inc.	y	FS 1 slop oil tank,	Crude	20	Vac truck, oily gravel removed	Not Given	Backfill from tank to truck.
9/15/85	85360125804	ARCO Alaska, Inc.	y	Pad 3, Prudhoe Bay,	Crude	20	Soaked up w/absorbent pads-gravel vacuumed		
11/16/85	85360932001	SOHIO Alaska Petroleum Company	m	Storage Yard, Prudhoe Bay,	Corrosion inhibitor	20	Contaminated snow/material picked up with loader		
12/8/85	85360134201	ARCO Alaska, Inc.	y	Prudhoe Field Terminal,	Diesel	20	Soaked up w/absorbents - snow scraped up		
5/10/86	86360113001	Sohio Alaska Petroleum Company	y	BOC - Fuel Pumps,	Gasoline	20	Soaked up w/sorbents	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/11/86	86360116201	Sohio Alaska Petroleum Company	y	F-17,	Diesel	20	Contaminated gravel scraped up	Interim Containment	
7/14/86	86360119501	ARCO Alaska, Inc.	y	DS 18, Well 8,	Crude	20	Sucked up w/vacuum truck-soaked w/absorbents	Interim Containment	
7/30/86	86360121101	ARCO Alaska, Inc.	y	FS 1,	Crude	20	Soaked up with sorbents	Incinerated	
8/27/86	86360923901	Standard Alaska Production Com	y	GC-I, Skid 19,	Glycol	20	Contaminated gravel scraped up	Used To Build Up Inside Of R.p.wall	
9/29/86	86360927201	ARCO Alaska, Inc.	y	FS 3,	Corrosion inhibitor	20	Soaked up with sorbents	Interim Containment	
10/1/86	86360127401	Standard Alaska Production Com	y	Gathering Center 1, Module 317,	Diesel	20	Contaminated snow/gravel scraped up	Interim Containment	
10/16/86	86360928901	Standard Alaska Production Com	y	WSW Methanol tanks,	Methanol	20	Vacuumed up/contaminated snow scraped up	Recycled	
12/15/86	86360134901	ARCO Alaska, Inc.	y	FS 2,	Gasoline	20	Contaminants were scraped up	Approved Landfill	
1/18/87	87360101801	Standard Alaska Production Com	y	W. S. W.,	Turbine fuel	20	Contaminants scraped up	Interim Containment	Product turbine fuel.
2/16/87	87360104701	Standard Alaska Production Com	y	GC-1, Skid 404,	Crude	20	Contaminants scraped up	Interim Containment	
2/19/87	87360105001	Standard Alaska Production Co.	m	Bell B-19,	Hydraulic oil	20	Absorbents used, contaminants scraped up. sorbents incinerated, contaminants to j pad reserve pit.	Incineration/approved Landfill	Cause: mechanical failure.
3/1/87	87360906101	ARCO Alaska, Inc.	y	SIP Pad,	Methanol	20	Soaked up w/sorbents-contaminants scraped up	Interim Containment	
3/30/87	87360908901	ARCO Alaska, Inc.	y	Lisburne Production Center,	Glycol	20	Contaminants scraped up	Subsurface Injection	
5/27/87	87360114701	ARCO Alaska, Inc.	y	DS 1, Well 3,	Crude	20	Soaked up w/sorbents-contaminants scraped up	Subsurface Injection	
6/8/87	87360115903	ARCO Alaska, Inc.	y	DS 3, Well 20,	Crude/diesel	20	Contaminated gravel scraped up	Padspred	
6/8/87	87360115908	ARCO Alaska, Inc.	y	DS 11, Well 27,	Crude/diesel	20	Contaminated gravel scraped up	Padspred	
6/17/87	87360116802	ARCO Alaska, Inc.	y	DS 13, Well 4,	Crude	20	Soaked up with sorbents-contaminants scraped up	Padspred	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/19/87	87360120003	ARCO Alaska, Inc.	y	DS 17, Well 11, Approximately 10' X 10' on pad	Crude	20	Soaked up with sorbents/contaminants respread	Sorbents Incinerated/cnts. Respred	
8/19/87	87360123101	ARCO Alaska, Inc.	y	Seawater Injection Plant, 6 square feet of pad	Crude	20	Soaked up with sorbents/contaminants scraped up	Incinerated	
9/13/87	87360125601	ARCO Alaska, Inc.	y	LGI Pad, 10' X 10' area on pad	Diesel	20	Soaked up with sorbents	Incinerated	
10/26/87	87360129901	ARCO Alaska, Inc.	y	DS 5, Area approximately 50' and 10'X 15' wide	Diesel	20	Contaminated snow scraped up	Interim Containment	
11/28/87	87360133201	ARCO Alaska, Inc.	y	DS 13,	Crude	20	Soaked up with sorbents	Taken To Snow Melter	
12/7/87	87360134101	Standard Alaska Production Com	y	C-3 Well,	Diesel/crude	20	Contaminants scraped up	Approved Landfill	
1/6/88	88360100601	Standard Alaska Production Com	y	Base Operations Camp, Area around fuel pumps	Gasoline	20	Soaked up with sorbents	Incinerated	
1/25/88	88360102503	ARCO Alaska, Inc.	y	DS L1`,	Diesel	20	Contaminants scraped up	Interim Containment	
1/28/88	88360102802	ARCO Alaska, Inc.	y	COTU, Prudhoe Bay, Area around parked tanker	Diesel	20	Contaminants scraped up	Recycled	
2/9/88	88360104002	Standard Alaska Production Com	y	M-3, Area between wellhouse and reserve pit	Diesel/crude	20	Contaminants scraped up	Approved Landfill	
2/13/88	88360104401	Standard Alaska Production Com	y	Well A-27,	Diesel	20	Contaminants scraped up	Approved Landfill	
2/14/88	88360104501	ARCO Alaska, Inc.	y	DS 18,	Motor oil	20	Contaminants scraped up	Approved Landfill	
3/10/88	88360107002	ARCO Alaska, Inc.	y	DS 11, Well 24, Area around flow line	Crude	20	Contaminants scraped up	Interim Containment	
3/22/88	88360108201	Standard Alaska Production Com	y	X-5,	Methanol	20	Contaminants scraped up	Interim Containment	
4/15/88	88360110601	ARCO Alaska, Inc.	y	DS 4, Doyon Rig 9,	Diesel	20	Soaked up with sorbents-contaminants scraped up	Approved Landfill	Heater burner failed.
6/22/88	88360117402	ARCO Alaska, Inc.	y	J Pad, J Pad	Unknown	20	Vacuum truck & absorbents	Approved Landfill	Oiltype: CL (Catland) 943 Cleaning Compound
7/4/88	88360118601	ARCO Alaska, Inc.	y	DS 7, Well 21, contained on pad	Diesel	20	Shoveled up contaminated gravel		

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/15/88	88360119702	SAPCO	y	GC-3, Skid 451 area, contained on pad	Hydraulic oil	20	Absorbents/ contaminated gravel scraped up	Other	hose failed on man-lift
7/22/88	88360120405	Dowell Schlumberger	m	Unknown, on pad	Diesel	20	Absorbents & picked up gravel/put down new gravel	Approved Landfill	leaking manifold of transport
8/5/88	88360121804	ARCO Alaska, Inc.	y	C Pad, contained on lined pad	Lubricating oil	20	Absorbents/loader used to removed gravel	Incineration/approved Landfill	leaked from punctured barrels while rolling them into crusher
8/10/88	88360122301	ARCO Alaska, Inc.	y	FS 2, Module 4904, 4905, contained on pad	Ideal plus lube oil	20	Gravel scooped up & removed/replaced with new	Approved Landfill	
8/20/88	88360123301	Standard Alaska Production Com	y	GC-1/WSW, Dirty Water Tank, contained on pad	Crude	20	Vacuumed up/ gravel removed	Multiple/see Comments	
9/14/88	88360125904	SAPC Endicott	y	Well R-5 ARFEA, contained on pad	Crude	20	Grader and loader on gravel	Approved Landfill	
9/20/88	88360126401	Standard Alaska Production Com	y	A-34, contained on pad	Diesel	20	Sorbents/area scraped	Approved Landfill	
9/27/88	88360127102	ARCO Alaska, Inc.	y	DS 5, Well 8, contained on pad	Diesel	20	Hand shoveled snow and gravel	Incinerated	Faulty sight glass caused tank overflow.
10/12/88	88360128603	SAPC Endicott	y	C Pad, Well C-6, contained on pad	Crude	20	Scraped up with loader	Approved Landfill	insulators bumped valve open
10/16/88	88360129001	ARCO Alaska, Inc.	y	DS 7, Well 28, contained on pad	Aviation hydrolic fluid	20	Loader used to remove snow/absorbents	Incineration/approved Landfill	Hose came off fitting
11/3/88	88360130801	ARCO Alaska, Inc.	y	DS 16 test relief pit, snowpack overlying tundra, approx 20' x 150'	Crude	20	Snow picked up with shovels	Approved Landfill	venting mist carried over tundra by strong winds
11/17/88	88360132204	SAPC Endicott	y	BOC Fuel Pumps, contained in snow on pad	Gasoline	20	Loader used on snow	Approved Landfill	type-gasoline and diesel
12/1/88	88360133602	SAPC Endicott	y	W-37, contained on pad	Methanol	20	Material removed with 966 loader	Other	
12/2/88	88360133701	ARCO Alaska, Inc.	y	DS 7, Well 11, contained on pad	Methanol	20	Snow picked up with loader	Subsurface Injection	vac truck hose leaked. Seawater 70%, methanol 30%
12/11/88	88360134601	ARCO Alaska, Inc.	y	DS 4, Well 19, contained on pad	Crude	20	Absorbents soaked up & cleaned off wellhead/walls	Incinerated	disconnected improperly drained lubricator. Mix 80% water, 20% crude
12/16/88	88360135101	ARCO Alaska, Inc.	y	DS Maintenance Yard, contained on pad	Methanol	20	Snow picked up with shovels	Multiple/see Disposal	leaking valve on tanker truck, replaced
12/19/88	88360135402	ARCO Alaska, Inc.	y	J Pad Pump House, contained on pad	Methanol	20	Snow picked up by loader	Recycled	trailer overfilled due to plugged sight glass
12/22/88	88360135702	ARCO Alaska, Inc.	y	L 5, Well 21, contained on pad	Corrosion inhibitor	20	Absorbents soaked up material, shovels for snow	Incinerated	relief valve blocked by ice, sprayed seawater and material
1/14/89	89360101404	SAPC Endicott	y	Well B-11, contained on pad	Hydraulic oil	20	Contaminated snow scraped up with shovels/loader	Recycled	injector head hydraulic hose failed
1/16/89	89360101602	ARCO Alaska, Inc.	y	Hot water plant, on snow covered gravel pad	Gelled water	20	Loader scraped up contaminated snow	Recycled	Seal on camlock hose leaked mixture of water gel (l.5 lbs biozyme gel to 42 gal water.)

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/9/89	89360104005	ARCO Alaska, Inc.	y	DS 12, Well 2, 100 sq ft of snow on gravel pad	Crude	20	Snow scraped up by loader	Approved Landfill	While deicing cellar, meltwater contaminated by 50-50 mix crude/diesel
2/17/89	89360504801	ARCO Alaska, Inc.	y	DS 6, Well 12, contained on pad	Cement	20	Handshovels removed material and snow	Approved Landfill	Camlock connection came loose during squeeze operation. Mixture of 1 % cement, 3 % fresh water, remainder of product type not given.
2/19/89	89360105006	BPXA	y	G 1, contained on pad	Diesel	20	Loader used to scrape up contaminates	Recycled	air valve stuck, overflowed tank during diesel transfer
3/6/89	89360106502	ARCO Alaska, Inc.	m	Pad 14, contained on pad	Hydraulic oil	20	Loader scraped up contaminated snow. taken to nsb ow pit.	Approved Landfill	O ring broke on hydraulic tank on loader
3/10/89	89360106905	BPXA	m	Stores Pol, contained on pad	Diesel	20	Snow scraped up with loader, taken to melter for recycle	Recycled	Mixture of diesel and crude 50/50. Valve left open on truck while being filled.
3/26/89	89360108505	VECO	y	T Pad, None.	Engine lube oil	20	Snow removed, taken to nsb oily waste pit.	Approved Landfill	Rupture of oil transfer line.
4/1/89	89360109103	BPXA	y	GC-1, Skid 22, None. All contained in snow on pad	Antifreeze	20	Contaminated snow scraped up with loader. taken to snow melter for recovery.	Recycled	Glycol spilled through relief line.
4/3/89	89360109302	ARCO Alaska, Inc.	y	DS L 5, Well 36, Contained on snow on pad	Diesel	20	Liquid picked up with absorbents--no snow removed. absorbents taken to nsb for incineration.	Incinerated	Truck fuel tank overfilled
4/7/89	89360109701	ARCO Alaska, Inc.	y	DS 16, Well 7, Contained on snow on pad	Gelled water	20	Loader scraped up material. taken to snow melter, then injected at pad 3.	Subsurface Injection	Mixture of fresh water and 3/4 pound XCD polymer gel released from tanker because hatch not tightened sufficiently.
4/26/89	89360111603	ARCO Alaska, Inc.	y	DS 16, Well 7, contained on pad 4' x 8' area	Crude	20	Absorbents soaked up fluid, loader removed material and contaminated snow. sorbents to nsb incinerator, snow to pad 3.	Multiple	Mixture 5% crude, 94.6% water, 0.4% XCD polymer spilled during well workover. Valve closed by accident, material discharged from relief vent.
5/21/89	89360114102	ARCO Alaska, Inc.	y	DS 17, Well 7, contained on pad. 5'x 5' area.	Hydraulic oil	20	Absorbents used, snow removed with shovels, taken to nsb incinerator	Incinerated	Hydraulic line failure on stimulation blending unit during well work operation.
6/2/89	89360115302	ARCO Alaska, Inc.	y	DS 14, Well 11, contained on pad	Diesel	20	Vac truck sucked up free fluid, gravel removed to temp storage at pad 3 when temp storage constructed.	Multiple	Suction valve vibrated loose on Triplex pump.
6/28/89	89360117906	ARCO Alaska, Inc.	y	NGI, contained on pad	Hydraulic oil	20	Absorbents used, gravel removed. sorbents to nsb incinerator, gravel to nsb sowp	Multiple	Water truck driver ran over barrel.
7/1/89	89360918201	Halliburton Services	y	Pad G, Well 31 BP Explorations, Ground, soil	Acid	20	Soda ash neutralized acid. cleaned up, soil scooped up. put soda ash into plastic bags, gravel into sw container.	Multiple	Bubble of air trapped in line, air pressure caused valve to open. BP inspected site.
7/1/89	89360918202	ARCO Alaska, Inc.	y	DS 7, Well 27, contained on pad	Other	20	Gravel dug up, taken to sowp disposal at nsb	Approved Landfill	Cement contaminant: 90% water, 5% bentonite, 5% borax. Valve packing leak during well work.
7/6/89	89360118701	ARCO Alaska, Inc.	y	FS 2 Module 4918, contained on pad	Crude	20	Absorbents, vac truck used. no gravel contaminated. fluid taken to fs 1 recycle, sorbents to nsb incinerator.	Multiple	Mixture 50% crude, 50% produced water released during tie in operation while shut down. Residual fluid ran out open line.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/6/89	89360118704	BPXA	y	X Pad, Into pigging pit, onto dike wall, some on new dir	Crude	20	Excavated some dirt and gravel, taken to santa fe pad.	Approved Landfill	Vac truck had clogged nozzle. Overpressured, blew into pigging pit and onto dike wall and small amount onto new dirt. Dirt replaced.
7/11/89	89360119201	ARCO Alaska, Inc.	y	DS 9, contained on pad	Crude	20	Absorbents used, taken to nsb incinerator.	Incinerated	Vac truck driver opened valve with positive pressure still on line.
7/28/89	89360120906	BPXA	y	Z Pad, 20' x 30' tundra inside impoundment area.	Diesel	20	Minor sheen (plus/minus 1 qt) removed with absorbents. residual diesel burned off with torches. sorbents to nsb incinerator.	Incinerated	Tundra saturated from leak in lined berm under fuel tanks. Area revegetated w/seed and fertilizer, then monitored for signs of contamination. None visible at present.
7/30/89	89360121101	ARCO Alaska, Inc.	y	DS 2 Well 13, Contained on pad	Crude	20	Super sucker used, fluid taken to pad 3, gravel to nsb sowp.	Approved Landfill	Overfilled slop oil trailer.
8/2/89	89360121401	ARCO Alaska, Inc.	y	ARCO Fuel depot, contained on pad	Diesel	20	Absorbents used, taken to nsb incinerator.	Incinerated	Fuel nozzle stuck open. Spill was contained in rain puddles. No gravel affected.
8/8/89	89360122005	ARCO Alaska, Inc.	y	CGF, contained on pad	Methanol	20	Vac truck used. fluid taken to fs 1 for recycle.	Recycled	New pump on truck leaked.
8/17/89	89360122901	ARCO Alaska, Inc.	y	DS 11, contained on gravel pad	Diesel	20	Super sucker used, taken to nsb sowp	Approved Landfill	Failure to install bleeder valve necessitated planned release of fluid from union. Fluid misted onto gravel.
8/21/89	89360123305	BPXA	y	Nitrogen Skid, contained on pad	Diesel	20	Absorbents used on pooled diesel, gravel removed with loader. sorbents to nsb incinerator, gravel to santa fe pad.	Multiple	Trailer-mounted welder overturned adjacent to nitrogen skid on spine road.
9/15/89	89360125802	Halliburton Services	y	DS 1 Well 25, Sprayed over approximately 110 ft. square	Cement	20	Super sucker used. gravel removed. arco disposing of at pad 3.	Approved Landfill	Cement spilled when 3 inch suction hose ruptured.
10/10/89	89360128306	ARCO Alaska, Inc.	y	MCC Fuel Depot, contained on gravel	Gasoline	20	Absorbents used, loader. gravel to nsb sowp and sorbents to nsb incinerator.	Multiple	
11/5/89	89360130903	BPXA	y	Well W-44, Contained on pad	Diesel	20	Sorbents used, snow and gravel removed with shovels. sorbents to incinerator, gravel to lined berm at santa fe pad.	Multiple	Hose fitting failed underneath arctic coiled tubing unit.
11/6/89	89360131005	ARCO Alaska, Inc.	y	DS 15 Well 13, Contained on pad.	Antifreeze	20	Absorbents in place at time of spill. sorbents to nsb incinerator.	Incinerated	Glycol 50%, water 50%.
11/21/89	89360932501	Camco	y	DS 14 Well 28, Contained on pad	Methanol	20	Loader removed gravel, taken to nsb disposal.	Approved Landfill	Mixture 60% methanol, 40l% water spilled when slop trailer overflowed.
11/21/89	89360932502	ARCO Alaska, Inc.	y	DS 14, Well 28, Contained on pad	Methanol	20	Super sucker removed liquid, gravel. liquid to pad 3, gravel to nsb sowp.	Multiple	60% methanol, 40% water spilled when slop trailer overfilled.
11/21/89	89360932503	ARCO Alaska, Inc.	y	C Pad, Contained on pad	Methanol	20	Absorbents used, gravel removed. sorbents to burnable dumpster, gravel in overpack drum to nsb sowp.	Incineration/approved Landfill	Leaking valve on tanker.
11/22/89	89360232601	ARCO Alaska, Inc.	y	DS 3 Well 16, Contained on pad	Other	20	Gravel removed, taken to nsb sowp.	Approved Landfill	While hauling hot fresh water to rinse out tank, camlock on hose came loose.
11/30/89	89360133402	ARCO Alaska, Inc.	y	South Hangar, Contained on pad	Hydraulic oil	20	Gravel removed by loader, taken to nsb sowp.	Approved Landfill	
12/8/89	89360134202	ARCO Alaska, Inc.	y	DS 7 Well 24, Contained on snow on pad	Diesel	20	Super sucker used. snow melted, taken to fs 1 for recycle.	Recycled	After fuel transfer, hose not properly disconnected.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/9/89	89360934301	ARCO Alaska, Inc.	y	Pad 3 Waste injection facility, Contained on snow on pad	Antifreeze	20	Super sucker and shovels removed snow and material, taken to pad 3 for injection.	Subsurface Injection	Hose fell onto valve handle causing it to open.
12/10/89	89360934401	BPXA	y	S Pad, Well 10, Contained on pad	Methanol	20	Loader removed contaminates, taken to t pad temp storage site.	Interim Containment	Post frac clean out; material being put into mud box when box liner split.
12/16/89	89360235001	ARCO Alaska, Inc.	y	DS 13, Well 29, Contained on pad and frozen	Gelled water	20	Not done yet, will clean after equipment moved. snow will be melted and injected at pad 3.	Subsurface Injection	While mixing in tanks, level became too high and overflowed spilling gelled water.
12/24/89	89360935801	BPXA	y	N-3, Contained on pad	Methanol	20	Loader removed contaminate, taken to a3/w2 melt tank for recovery.	Recycled	Coil tubing parted while under pressure which caused a spray.
1/3/90	90360900301	BPXA	y	Stores Yard (P.O.L.), Contained in snow on pad.	Other	20	Loader scraped up snow, taken to melt tank at a3w2 warehouse for recovery.	Recycled	No tundra or water affected. Visual inspection revealed no further evidence of contamination.
1/5/90	90360100501	ARCO Alaska, Inc.	m	100% pad drilling tool house in Deadhorse, On snow on pad	Diesel	20	Vac truck and absorbents used. sorbents to nsb incinerator, snow, material recycled at ds 2, well 27.	Multiple	Electric switch failed causing tank overflow.
1/8/90	90360100801	Camco Inc.	y	L 2-24, Lisburn Field, Prudhoe, No area given; states "no damage."	Crude	20	Super sucker used, absorbents, gravel removed. no disposal given.	Not Given	Quarter turn valve on top of well left open.
1/13/90	90360101301	BPXA	y	Well J-9, Contained on pad	Hydraulic oil	20	Snow/ice removed by loader, taken to melter for recovery.	Recycled	Fluid leaked from fittings on drilling rig and seeped through rig mats onto pad.
1/19/90	90360101903	BPXA	y	BOC Fuel pumps, Contained on pad	Gasoline	20	Grader removed contaminated gravel, taken to a3w2 melter for bathing and recovery.	Recycled	Vehicle drove off with nozzle still in tank, nozzled separated from hose.
1/20/90	90360102002	Halliburton Services	m	BP Exploration load dock for diesel, Snow	Diesel	20	Loader scraped snow. bp disposal, not given.	Not Given	Belly valve on transport and caps on back leaked.
1/24/90	90360102401	ARCO Alaska, Inc.	y	DS 5 Well 25, Gravel pad	Crude	20	Super sucker removed snow/gravel, took to nsb sowp.	Approved Landfill	Slop trailer overflowed.
1/26/90	90360902601	BPXA	y	F Pad Well 17, Contained in snow and gravel on pad	Methanol	20	Loader removed snow, gravel. vac truck for pooled methanol. snow/gravel to a3w2 for recovery, methanol to production system at gc1.	Recycled	Valve on bleed tank not fully closed.
2/1/90	90360103201	VECO	m	ARCO fuel facility, Contained on frozen snow/ice.	Diesel	20	Snow/ice removed, taken to snow melter. blotted up diesel, bagged, taken to nsb incinerator.	Incinerated	Fire safety valve froze shut, tank overfilled. Joe De Marsh phoned 2-2 and changed method of disposal from melt/injection to incineration.
2/1/90	90360103203	ARCO Alaska, Inc.	y	FS 3, Ice and snow covered tundra	Hydraulic oil	20	Absorbents used, loader and hand shovels. absorbents to nsb incinerator.	Incinerated	While drilling VSM holes, hydraulic line ruptured.
2/19/90	90360105001	Halliburton Services	y	L4 Well 31, Contained on snow on pad	Diesel	20	Snow removed by pick and shovel. being run through waste recovery system in disposal waste tanks.	Recycled	Leaking hammer union on swing. Cleanup checked by ARCO rep.
2/19/90	90360905001	BPXA	y	C Pad Well 16, Contained on pad	Methanol	20	Shovels, bucket removed contaminate. hauled to peak wash rack for thawing.	Not Given	Main valve seal failed while transferring from vac truck to pump.
2/19/90	90360905002	Doyon Drilling Rig 14	m	Sewage Plant, Snow.	Antifreeze	20	Snow and ice scraped up, put into burnable dumpster.	Incinerated	Hose blew off. Some glycol leaked through floor onto outside snow.
2/27/90	90360105802	ARCO Alaska, Inc.	y	DS 9, Contained on snow on pad	Diesel	20	Hand shovels, loader used. melted down, absorbents used, incinerated.	Incinerated	Fuel line connection broke while being tightened.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/5/90	90360906401	ARCO Alaska, Inc.	y	DS Maintenance Yard, Contained on pad	Methanol	20	Loader removed material, put in open top tank, melted, reused at ds 410.	Recycled	Material surged out of overflow vent when tanker made a sudden stop.
4/10/90	90360110001	ARCO Alaska, Inc.	y	Behind COTU, Contained on snow on pad	Crude	20	Vac truck on site, removed material/snow. absorbents used, hand shovels. sorbents incinerated, liquids recycled at fs 1, snow melted, injected pad 3.	Multiple	While cleaning line, flange unhooked, material discharged.
4/10/90	90360910001	ARCO Alaska, Inc.	y	DS 3 Well 13, Some material went under rig	Antifreeze	20	Absorbents already down during repair. snow shoveled up, bagged, taken to nsb incinerator.	Incinerated	While repairing hole in heat exchanger, coupler popped off.
4/27/90	90360111702	Halliburton Services	y	DS 17 Well 3, Contained on snow on pad	Diesel	20	Loader removed snow, melted, injected at pad 3.	Subsurface Injection	ARCO handled cleanup.
4/30/90	90360112001	ARCO Alaska, Inc.	y	DS 5 Well 4, contained on pad	Diesel	20	Loader, rake used, material taken to pad 3 class 1, temp pit.	Interim Containment	Thermal expansion caused spill.
5/3/90	90360112301	ARCO Alaska, Inc.	y	Lake west of MCC pad, Contained on ice on lake	Hydraulic oil	20	Absorbents, taken to nsb incinerator. contaminated snow/ice melted, used in well work at ds 1.	Incinerated	
5/4/90	90360112404	ARCO Alaska, Inc.	y	U4A near MCC, Contained on snow on pad	Engine lube oil	20	Loader, dump truck used. snow melted, recycled in well operation.	Recycled	Suspect leak from tanker.
5/7/90	90360112703	ARCO Alaska, Inc.	y	CCP, Parking lots	Hydraulic oil	20	Loader, truck used. taken to temp class 1 site at pad 3.	Approved Landfill	Observed after melt, suspect leak from heavy equipment.
5/9/90	90360912901	Halliburton Services	m	Halliburton Acid Plant north side, Gravel pad 4 x 10	Acid	20	Neutralized to ph 10, picked up by shovel, put in landfill.	Approved Landfill	Pin hole leak in storage container. 20 gal. leaked thru dike thru liner onto frozen ground and ice. Material remaining in tank transferred, material on pad neutralized to PH 10. Ice, salt, surface ice, gravel put into container. Material in berm neutraliz
5/14/90	90360113404	VECO	m	Bulk Loading Dock, Loading dock	Diesel	20	Loader used. material taken to 1h sowp.	Approved Landfill	
5/27/90	90360114706	ARCO Alaska, Inc.	y	FS 1, Contained on pad	Other	20	Gravel removed, taken to pad 3 sowp.	Approved Landfill	Seal oil (lube oil rich gas) vented, condensed and fell to pad.
5/29/90	90360514901	Dowell Schlumberger	y	N Pad Well 23, Gravel Pad	Cement	20	Shoveled up cement, small amt. gravel, placed in containment box. bp will handle disposal.	Interim Containment	Valve bumped open on mixing unit during transfer.
6/8/90	90360115902	BPXA	y	M Pad Well 18, Contained on pad and reserve pit behind wellhouse	Crude	20	Vac truck used on fluids, gravels removed with shovels. fluids to gci system, gravel to arco pad 3.	Multiple	Crude seen draining from valve in J box after depressurizing flowline.
6/10/90	90360116101	VECO	m	Not given, Gravel pad	Diesel	20	Absorbents used. put in borough dumpster.	Incinerated	
6/17/90	90360116803	Conam	y	FS 3, Contained on pad	Diesel	20	1.5 yds gravel removed, taken to arco pad 3.	Approved Landfill	
6/21/90	90360217201	ARCO Alaska, Inc.	y	DS 17, Well 5, Contained on pad	Gelled water	20	Supersucker removed product and gravel and taken to pad 3 swdp.	Approved Landfill	Freshwater gel spilled when vac truck valve opened.
7/8/90	90360918902	Halliburton Services	y	DS 10 Well 10-I, Contained on pad	Other	20	Absorbents used, gravel removed. sorbents, bagged, to burnable dumpster; gravel to sw dumpster.	Incineration/approved Landfill	99% water, 1% cement chemicals: HR5 (lignate sulfate); CFR3 (dispersent); D Air 3 (anti-foam); FDP-C434 A and B.
7/10/90	90360119103	BPXA	y	P Pad well 8, Contained on pad	Diesel	20	All contaminated materials will be removed at end of job when equipment is relocated.disposal at arco pad 3.	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/19/90	90360223102	Alaska Petroleum Contractors	y	DS 15 Well 13, Gravel pad	Gelled water	20	Super suckers removed, taken to pad 3.	Approved Landfill	Crack in bottom of tank leaked freshwater gel.
8/19/90	90360223103	Alaska Petroleum Contractors	y	DS 15 Well 13, Gravel	Gelled water	20	Super sucker used, taken to pad 3.	Approved Landfill	Crack in bottom of vac tank leaked gelled water.
8/29/90	90360124101	BPXA	y	BOC fuel pumps, Contained on pad	Diesel	20	Absorbents used, gravel removed. sorbents to nsb incin., gravel to arco pad 3.	Incineration/approved Landfill	Site glass not functioning, caused tank overflow.
9/3/90	90360124601	ARCO Alaska, Inc.	y	Pad 3, Contained on pad	Diesel	20	Absorbents used, gravel removed, taken to pad 3 sowp.	Approved Landfill	Equipment operator closed valve while pump on.
9/10/90	90360125301	Dowell Schlumberger	y	DS 14 Well 11, Gravel pad 10 x 10	Hydraulic oil	20	Absorbents used, put in nsb burnable dumpster.	Incinerated	
9/16/90	90360125901	Conoco	y	L Pad road, 10 x 10 gravel	Hydraulic oil	20	Absorbents used. pads bagged, put in dumpster for future disposal.	Interim Containment	
9/29/90	90360927201	Arctic Coiled Tubing	y	DS 12 Well 8, Gravel pad	Methanol	20	Absorbents used, incinerated at nsb.	Incinerated	
10/1/90	90360927403	BPXA	y	R Pad, Contained on pad	Antifreeze	20	Vac truck used, absorbents, gravel removed. all material to pad 3.	Approved Landfill	
10/3/90	90360127602	ARCO Alaska, Inc.	y	DS 4, Contained on pad	Crude	20	Gravel, snow removed, taken to pad 3 sw pit.	Approved Landfill	Well bore fluid, 50-50 crude/diesel spilled during rigging down process.
10/16/90	90360228902	Dowell Schlumberger	y	DS 15-21, Contained on pad	Seawater	20	Shoveled snow/ice/gravel. placed in sw dumpster for landfill.	Approved Landfill	Valve stuck open.
10/21/90	90360129402	ARCO Alaska, Inc.	y	DS 11 Well 23, Gravel pad	Diesel	20	Loader removed gravel, put in temp containment dike pending analysis.	Interim Containment	
11/11/90	90360931501	ARCO Alaska, Inc.	y	DS 9, Contained on snow on pad	Methanol	20	Vac truck used. snow melted, taken to pad 3 wif.	Approved Landfill	57% methanol, 38% Water, 5% crude.
11/28/90	90360133201	Camco Inc.	y	DS 3 Well 26, Snow on gravel	Diesel	20	Absorbents used, snow/gravel removed by loader. fluids recycled at arco maintenance, gravel cleaned, put back.	Multiple	99% dirty diesel, 1% diesel spilled when slop tank overfilled.
12/2/90	90360133602	Alaska Petroleum Contractors	y	DS 12, 10 x 10 snow/ice on pad	Crude	20	Snow removed, put in snow melt tank. taken to pad 3 for injection.	Subsurface Injection	50/50 crude/water for total vol. 40 gal spilled from loose hatch on tank.
12/7/90	90360934101	ARCO Alaska, Inc.	y	DS L2, Gravel pad	Antifreeze	20	Handshovels removed snow, taken to pad 3.	Approved Landfill	
12/16/90	90360235001	ARCO Alaska, Inc.	y	DS 9, Gravel pad	Seawater	20	Loader used, melted, taken to pad 3 waste facility.	Approved Landfill	Seawater and gel mix.
12/19/90	90360935303	VECO	y	DS NGI, Snow/ice pad	Other	20	Loader removed material, put in lined dumpster at pad 3.	Approved Landfill	Biozan Polymer and seawater. 2 lbs polymer per 42 gal. seawater.
12/22/90	90360235601	Halliburton Services	y	Pad LGI Well 6, Not given	Gelled water	20	Scraped up, taken to wash rack for meltdown. disposal not given.	Not Given	
1/5/91	91360100502	Arctic Coiled Tubing	y	DS 9 Well 3, 5 x 5 hard packed snow	Hydraulic oil	20	Snow chisled up, put in buckets, gravel wiped with absorbents. snow melted, oil burned in heaters, absorbents incinerated.	Incinerated	
1/5/91	91360200501	ARCO Alaska, Inc.	y	DS 3 Well 23, Contained on pad	Gelled water	20	Loader removed snow, melted, recycled ds 3.	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/7/91	91360900703	Alaska Petroleum Contractors	y	Hot Water Plant, Prudhoe, 10 x 15	Other	20	Loader, bucket removed snow, taken to melter. some reused as cut water, some injected at pad 3.	Multiple	Frozen sight glass caused tank overtopping, spilling frac gel.
1/9/91	91360100901	BPXA	y	F Pad Module 95, Contained in snow on pad	Diesel	20	Snow will be removed with shovels and loader. will be taken to t pad for disposal.	Approved Landfill	Leaking flange.
1/9/91	91360900901	ARCO Alaska, Inc.	y	DS 3 Well 20, Not given	Methanol	20	Snow removed to open topped tank. gravel will be washed.	Multiple	Leak from supply line.
1/10/91	91360201001	BPXA	y	A Pad Well 10, Contained on pad	Diesel	20	Snow will be removed with loader, taken to t pad lined pit for summer recovery.	Interim Containment	Hatch on bottom of tiger tank failed spilling 20 gal. diesel, 20 gal water. Total volume 40 gal.
1/13/91	91360501301	Conam	y	Spine Rd between DS 6 and 17, Surface of road	Other	20	Scraped, removed material. put in burnable dumpster.	Incinerated	Human waste spilled when portable toilet fell off truck.
1/20/91	91360902001	BPXA	y	Pad GCI Skid 19, Contained on pad	Antifreeze	20	Loader used. taken to t pad, held for summer recovery.	Interim Containment	Truck valve broke off, residual spilled out.
2/2/91	91360903302	ARCO Alaska, Inc.	y	CGF Entry wall, Contained on snow on pad	Antifreeze	20	Loader removed snow. taken to pad 3 sowp.	Approved Landfill	Tank thought to be empty was overfilled.
2/9/91	91360204001	Alaska Petroleum Contractors	y	SIP, Ice/snow on pad	Seawater	20	Scraped up with shovels, injected pad 3.	Subsurface Injection	
2/18/91	91360104901	BPXA	y	J Pad Well 25, Contained on pad	Crude	20	Loader removed material, took to price pad for melting, injection.	Subsurface Injection	Crude ran out vent of truck. AK Petroleum Contractors.
2/24/91	91360905501	BPXA	y	Well 3-25, Contained on snow/ice	Antifreeze	20	Loader removed material, put in melt tank.	Interim Containment	No cause given.
2/25/91	91360905601	Halliburton Services	y	DS 14 Well 6, 4 sq ft snow on gravel	Methanol	20	Loader removed material, put in slop tank, will be disposed of by arco.	Interim Containment	Contractor for ARCO.
2/28/91	91360105901	Conoco	y	G Pad road, 20 sq ft snow/ice	Diesel	20	Snow/ice shoveled. absorbents used. sorbents incin. nsb, snow to temp open top tank e pad.	Multiple	Fire on crane melted fittings.
3/4/91	91360906301	Alaska Petroleum Contractors	y	ARCO Drill Site Maintenance, 5 x 10 on pad	Methanol	20	Loader, shovels removed material, put in open top tank, recycled as cut water.	Recycled	Leaking hatch.
3/7/91	91360906602	ARCO Alaska, Inc.	y	DS 9 west of Well 48, 200 x 2 and 2 x 8 puddle	Antifreeze	20	Absorbents, loader and shovels used. sorbents to nsb incin., snow to pad 3.	Incineration/approved Landfill	
3/8/91	91360106702	ARCO Alaska, Inc.	y	DS 5 Well 23, Gravel pad	Diesel	20	Loader removed snow/gravel. snow melted, taken to pad 3 for injection, gravel to pad 3 sw pit.	Multiple	Leak during drilling.
3/10/91	91360206902	BPXA	y	P Pad Well 18, Contained on pad	Seawater	20	Material removed by loader, taken to t pad lined pit.	Interim Containment	Frac tank overflowed.
3/21/91	91360108001	BPXA	y	S Pad Well 29, Contained on pad	Crude	20	Loader used. material taken to t pad pit.	Interim Containment	Packing material failed on unit.
3/26/91	91360108503	BPXA	y	Spine Rd to S pad access, Road surface and shoulder	Hydraulic oil	20	Snow/gravel removed by grader and loader. materials placed in melt tank a3w2.	Interim Containment	Hoses ruptured during vehicle accident.
3/29/91	90360208801	HB and R	m	AAI Hot water plant, Road & pad surface snow	Other	20	Material removed, taken to melter and recycled.	Recycled	Freshwater w/oil traces spilled when sump overfilled. Final only, no initial rec'd.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/11/91	91360210101	Alaska Petroleum Contractors	y	DS maintenance, 7 ft diameter ice/snow	Other	20	Loader removed material. melted, recycled as cut water.	Recycled	Overflow of sump spilled 98% fresh water, 2% crude.
4/16/91	91360910601	BPXA	y	B Pad module 57, Contained on pad	Antifreeze	20	Loader removed material. taken to a3w2 melt tank.	Interim Containment	Leaked from abandoned line.
4/25/91	91360111502	Alaska Petroleum Contractors	y	FS 3 Module 4938, 4 x 6 snow on pad	Hydraulic oil	20	Shovels, absorbents used. bagged, taken to nsb incinerator.	Incinerated	
4/26/91	91360211601	ARCO Alaska, Inc.	y	DS 17 Well 1, 5 x 5 snow on pad	Seawater	20	Super sucker used. injected pad 3.	Subsurface Injection	Relief valve on pump blew during wireline operation.
5/21/91	91360914101	ARCO Alaska, Inc.	y	FS 1, Contained on pad	Corrosion inhibitor	20	Absorbents, hand shovels used. material to c pad to be shipped to tsd facility.	Interim Containment	Forklift punctured drum of Nalco 945.
5/24/91	91360114402	BPXA	y	E Pad entrance, Contained on pad	Hydraulic oil	20	Absorbents, loader used. sorbents incin. nsb, solids to t pad pit for summer recovery.	Multiple	
5/24/91	91360514401	BPXA	y	Point McIntrye, Adjacent salt water	Drilling muds	20	Gravel berm around melt water. sorbents on sheening areas. shovels for random spots on pad. sorbents to nsb incin., gravel to tpad, fluids to gc tank.	Multiple	Spots from winter operations revealed in thaw. Pad trenched to facilitate melt resulted in contam. water running into adjacent salt water.
6/9/91	91360116002	BPXA	y	GC3 Const. site, Contained on pad	Diesel	20	Loader removed most material, workers shoveled up rest. all loaded ont dump truck, taken to arco pad 3.	Approved Landfill	General messy conditions from contractor work.
6/17/91	91360216801	BPXA	y	Wellhouse 2-22, None	Seawater	20	None. report indicates disposal n/a.	Other	Delayed report due to use of old FAX number. Broken flange on 8 in. line.
6/22/91	91360117304	BPXA	y	CCP transformer skid, Contained on pad	Transformer oil	20	Absorbents, used, gravel removed. sorbents to nsb incin., gravel to pad 3.	Incineration/approved Landfill	Wind blew oil onto ground and excessive water drained.
7/25/91	91360120601	ARCO Alaska, Inc.	y	FS 3 North end, Gravel	Diesel	20	Supersucker, shovels removed gravel, took to pad 3 sowp.	Approved Landfill	
7/29/91	91360921001	ERA Helicopters	y	Between ARCO airfield and Sag River, 1 sq yd. tundra	Other	20	Alaska clean seas picked up gel and some tundra. bagged. disposal by acs.	Interim Containment	Helitorch gel in drum, tipped over by cable. Helitorch similar to napalm (Meggert).
7/31/91	91360121203	BPXA	y	P Pad Well 4, Contained on pad	Diesel	20	Loader removed gravel, took to arco pad 3.	Approved Landfill	Found during routine inspection.
8/7/91	91730121902	ARCO Alaska, Inc.	y	DS 15 Well 22, Contained on pad	Diesel	20	Loader removed gravel, took to pad 3 sowp.	Approved Landfill	
8/10/91	91730122201	Fracmaster Coiled Tubing	m	Drill site pad, Gravel pad	Diesel	20	Not given	Not Given	On recorder.
8/18/91	91730123004	ARCO Alaska, Inc.	y	C Pad, Gravel	Engine lube oil	20	Backhoe removed gravel. taken to pad 3.	Approved Landfill	Leak in drum storage area.
10/2/91	91730127501	Alaska Petroleum Contractors	y	DS 16, W 7, 15' X 15' ON GRAVEL PAD	Diesel	20	Absorbents used, gravel removed; gravel taken to pad 3. pads taken to nsb incinerator.	Incineration/approved Landfill	
10/12/91	91730928501	Peak Oilfield Services	y	FS 2, 2 x 2 ft snow/ice on gravel	Other	20	Loader removed frozen material, hauled to pad 3.	Approved Landfill	97% frac sand, 3% produced water spilled when open truck overfilled.
10/14/91	91730928701	Alaska Petroleum Contractors	y	J Pad, 4 x 8 on pad	Methanol	20	Loader removed snow, put in melt tank. melted and reused.	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/10/91	91730934402	BPXA	m	Drill Rig Laydown Area, Pad	Antifreeze	20	Snow/ice removed, placed in melt down tank.	Interim Containment	Radiator leak during rig move.
12/29/91	91730936301	BPXA	y	X Pad Well 2, Contained on pad	Methanol	20	Loader removed snow/ice. taken to t pad.	Approved Landfill	Packoff on injector head failed.
1/22/92	92730102201	ARCO Alaska Inc.	m	Jet Fuel Depot, Unit 94, mod 4904, 10 x 8 gravel	Av fuel	20	Vacuumed up spill, recycled fs 1.	Recycled	
2/3/92	92730103402	Schlumberger Well Services	y	DS 13 Well 98, 3450 sq ft ice/snow on pad/tundra/road	Diesel	20	Hand shovels,loader used. 8 yards snow to arco pad 3, 5 yds to sws facility..	Multiple	Ammended report 2/7 changed date from 2/4; volume from <10 gal.; product to crude and Amoco Indopol L-14 (heavy grease); and area affected from 50 x 20. Material sprayed when lost air supply caused seal between wireline and tubes to be lost. Cleanup finis
2/5/92	92730103602	BPXA	y	F Pad Well 6, Contained on pad	Crude	20	Shovels removed material, bagged, taken to pad 3.	Approved Landfill	Leak in 3/4" bypass line.
2/16/92	92730904701	ARCO Alaska Inc.	y	DS 4 Well 34A, Contained on pad	Methanol	20	Cleanup not given. reused at ds maintenance.	Recycled	Leak from flange.
2/18/92	92730204901	ARCO Alaska Inc.	y	FS 1, Snow on pad	Produced water	20	On going cleanup. shovels used, taken to pad 3 for melting, injection.	Subsurface Injection	
2/18/92	92730204902	Peak Oilfield Service Co.	y	STP, No damage	Seawater	20	Water sucked up, returned to vac tank. frozen water removed by loader and taken to peak's sump.	Recycled	
2/20/92	92730205101	BPXA	y	Seawater Tank GC-1/WSW, Contained on ice on pad	Seawater	20	Material removed by grader, taken to t pad.	Approved Landfill	Valve to vac truck not completely closed.
2/25/92	92730105602	VECO	m	Not given, Not given	Hydraulic oil	20	Not given.	Not Given	
2/26/92	92730105701	VECO	m	Not given, Not given	Hydraulic oil	20	Not given.	Not Given	On recorder.
2/29/92	92730206001	BPXA	y	W Pad cellar area W-36, Contained on ice pad	Seawater	20	Seawater squeegeed back into cellar, pumped to slope tank. will be reused.	Recycled	Stand pipe valve left open. Well bore filled with seawater, overflowed cellar.
3/9/92	92730907001	BPXA	y	GC1, Contained on pad	Antifreeze	20	Loader removed contaminants, took to t pad pit for spring recovery.	Interim Containment	Coupling failure on pump. Fold-a-tank set up to catch additional drips. Will monitor during breakup.
3/13/92	92730107301	ARCO Alaska Inc.	y	CCP, Snow on pad	Engine lube oil	20	Handshovels removed snow/gravel. snow melted, injected waste inject fac., gravel at sw disposal.	Multiple	Material vented out of turbines, misted snow.
3/22/92	92730908201	BPXA	y	A Pad, Contained in ice on pad	Methanol	20	Material removed by loader, taken to a3w2 melt tank.	Interim Containment	
4/24/92	92730911502	Conam Construction Co.	y	DS 4, 10 x 10 ice	Methanol	20	Shoveled up, hauled to steam plant for recycle.	Recycled	
7/23/95	95399920401	BPXA	y	West Prudhoe Bay, L PAD WELL 29,	Other	20	Took Report, Case Closed 01-00-00		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/24/95	95399920501	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, DS 2-18,	Diesel	20	Took Report, Case Closed 01-00-00		Overfill
9/20/95	95399926301	M-I DRILLING FLUIDS	y	East Prudhoe Bay, DS 7-20A,	Other	20	Took Report, Case Closed 01-00-00		Overfill
9/29/95	95399927203	BPXA	y	West Prudhoe Bay, Y-11-L1,	Drilling Muds	20	Took Report, Case Closed 01-00-00		Leak
12/3/95	95399933701	ARCO	y	East Prudhoe Bay, DS15 WELL 22,	Crude	20	Took Report, Case Closed 01-00-00		Valve Failure
12/11/95	95399934501	BPXA	y	West Prudhoe Bay, S PAD WELL 5A,	Drilling Muds	20	Took Report, Case Closed 01-00-00		Other
12/11/95	95399934502	BPXA	y	West Prudhoe Bay, S PAD WELL 5A,	Drilling Muds	20	Took Report, Case Closed 01-00-00		Other
1/13/96	96399901302	BPXA	y	EAST PRUDOE BAY,	Other	20	Took Report, Case Closed 01-16-96		Human Error
2/9/96	96399904002	BPXA	y	West Prudhoe Bay, DS 13,	Other	20	Took Report, Case Closed 01-00-00		Tank Failure
3/8/96	96399906802	BPXA	y	West Prudhoe Bay,,	Seawater	20	Took Report, Case Closed 03-09-96		Overfill
5/17/96	96399913801	BPXA	y	West Prudhoe Bay, SPINE RD TO PAD A,	Hydraulic Oil	20	Took Report, Case Closed 01-00-00		Line Failure
6/5/96	96399915701	ARCO	y	East Prudhoe Bay, CFG,	Drag Reducing Agent	20	Phone Follow-up, Case Closed 06-10-96		Equipment Failure
7/13/96	96399919502	BPXA	y	West Prudhoe Bay, W PAD WELL 3,	Other	20	Took Report, Case Closed 01-00-00		Line Failure
7/13/96	96399919503	BPXA	y	West Prudhoe Bay, W-3,	Other	20	Phone Follow-up, Case Closed 01-00-00		Line Failure
8/10/96	96399922301	ARCO	ym	East Prudhoe Bay, FS 3 PIPELINE RD.,	Hydraulic Oil	20	Took Report, Case Closed 01-00-00		Line Failure
10/7/96	96399928101	ARCO	y	POINT MCINTYRE, PM 1, WELL 23,	Crude	20	Phone Follow-up, Case Closed 10-07-96		Line Failure
10/13/96	96399928701	BPXA	y	GC 1 LPS SECTION,	Ethylene Glycol (Antifreeze)	20	Phone Follow-up, Case Closed 01-00-00		Leak
10/27/96	96399930103	DOWELL SCHLUMBERGER	y	DS 7-24,	Acid, Other	20	Took Report, Case Closed 01-00-00		Seal Failure
11/18/96	96399932302	DOWELL SCHLUMBERGER	y	Flow Station 2 (FS-2),	Biocide	20	Phone Follow-up, Case Closed 01-00-00		Other
11/19/96	96399932402	BPXA	y	Gathering Center 2 (GC-2),	Methyl Alcohol (Methanol)	20	Phone Follow-up, Case Closed 11-17-97		Gauge/Site Glass Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/25/96	96399933001	ARCO	y	CCP,	Natural Gas	20	Took Report, Case Closed 01-00-00		Unknown
1/10/97	97399901001	ARCO	y	East Prudhoe Bay, CFG,	Ethylene Glycol (Antifreeze)	20	Took Report, Case Closed 01-00-00		Line Failure
2/22/97	97399905302	BPXA	y	West Prudhoe Bay, H PAD,	Other	20	Phone Follow-up, Case Closed 01-00-00		Equipment Failure
3/12/97	97399907104	BPXA	y	West Prudhoe Bay, E PAD,	Crude	20	Took Report, Case Closed 06-22-97		External Factors
8/3/97	97399921502	BPXA	y	West North Slope, BP (CATCO) Well Pad T.,	Diesel	20	Took Report, Case Closed 09-17-97		Leak
10/12/97	97399928501	ARCO	y	East Prudhoe Bay, ARCO DS 4.,	Crude	20	Phone Follow-up, Other 12-03-99		Leak
11/19/97	97399932302	B.P.	ym	EAST NORTH SLOPE, B.P. GC-1 GAS SECTION.,	Other	20	Took Report, Case Closed 02-19-98		Leak
12/23/97	97399935701	BPXA	y	West North Slope, B.P. Well Pad R.,	Diesel	20	Took Report, Case Closed 03-20-98		Overfill
1/9/98	98399900901	B.P.	y	West North Slope, B.P. Well Pad P.,	Drilling Muds	20	Took Report, Case Closed 01-00-00		Cargo Not Secured
1/19/98	98399901902	ARCO	y	EAST NORTH SLOPE, ARCO/NEIGHBORS DRILLING, DS 2, W,	Other	20	Took Report, Case Closed 01-00-00		Valve Failure
1/31/98	98399903101	B.P.	y	West North Slope, B.P. Well Pad J.,	Crude	20	Took Report, Case Closed 06-18-98		Leak
3/9/98	98399906801	BPXA	ym	West North Slope, BP Well Pad Z, WELL 24.,	Crude	20	Took Report, Case Closed 03-31-98		Line Failure
4/12/98	98399910201	B.P.	ym	EAST NORTH SLOPE,B.P. NWE 2-01 ICE PAD.,	Other	20	Took Report, Case Closed 01-00-00		Puncture
4/17/98	98399910701	ARCO	y	EAST NORTH SLOPE, ARCO DS 15.,	Diesel	20	Took Report, Case Closed 01-00-00		Leak
5/1/98	98399912101	LITTLE RED SERVICES	ym	EAST NORTH SLOPE, ARCO/LITTLE RED SERVICES.,	Diesel	20	Took Report, Case Closed 01-00-00		Overfill
6/25/98	98399917601	B.P.	y	EAST NORTH SLOPE, B.P., W-PAD.,	Diesel	20	Took Report, Case Closed 09-10-98		Leak
8/2/98	98399921401	ARCO	y	East Prudhoe Bay, ARCO, FS1,	Crude	20	Took Report, Case Closed 01-00-00		Leak
8/31/98	98399924304	BPXA	ym	West Prudhoe Bay, BP, GC-3 PWX SECTION,	Produced Water	20	Took Report, Case Closed 01-26-04		Human Error
9/5/98	98399925001	ARCO	y	East Prudhoe Bay, ARCO, FLOW STATION 2,	Other	20	Phone Follow-up, Case Closed 01-00-00		Line Failure
9/27/98	98399927001	BPXA	ym	EAST NORTH SLOPE, BP ENDICOTT, SOUTH OF SKID 305 T,	Hydraulic Oil	20	Took Report, Case Closed 09-28-98		Line Failure
11/1/98	98399930502	DOYON	y	East Prudhoe Bay, ARCO, DRILL SITE 06,	Seawater	20	Took Report, Case Closed 11-15-98		Overfill

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/23/98	98399932701	BPXA	ym	East Prudhoe Bay, 3-15 FLOWLINE ON WELL SIDE OF TH,	Crude	20	Took Report, Case Closed 11-23-98		Seal Failure
12/6/98	98399934002	NABORS ALASKA DRILLING	y	East Prudhoe Bay, ARCO, DRILL SITE 7, WELL 29A,	Other	20	Took Report, Case Closed 12-14-98		Valve Failure
12/25/98	98399935901	NABORS	y	West Prudhoe Bay, BP, Well Pad E,	Drilling Muds	20	Took Report, Case Closed 01-06-99		Other
1/22/99	99399902201	BPXA	y	West Prudhoe Bay, BP, Well Pad Y,	Methyl Alcohol (Methanol)	20	Took Report, Case Closed 02-01-99		Leak
3/1/99	99399906002	NABORS DRILLING	ym	East Prudhoe Bay, NABORS DRILLING PAD IN DEADHORSE,	Hydraulic Oil	20	Phone Follow-up, Case Closed 01-00-00		Leak
3/18/99	99399907702	NANA OILFIELD SERVICES	y	PRUDHOE BAY, ALASKA,	Diesel	20	Phone Follow-up, Case Closed 03-31-99		Other
7/8/99	99399918902	ALASKA PETROLEUM CONTRACTOR	ym	West North Slope, DRILLSITE 1-L PIG PIT AREA,	Hydraulic Oil	20	Took Report, Case Closed 07-08-99		Seal Failure
7/24/99	99399920502	BPXA	y	BP, WOA, GC2 SKID 495,	Produced Water	20	Took Report, Case Closed 07-30-99		Overfill
9/23/99	99399926601	ALASKA CLEAN SEAS	y	EAST NORTH SLOPE, SEAWATER INJECTION PLANT,	Seawater	20	Took Report, Case Closed 09-23-99		Line Failure
3/26/00	00399908601	HB&R/BP EXPLORATION (ALASKA)	y	East Prudhoe Bay,Well Pad K-1,	Diesel	20	Took Report, Case Closed 03-27-00		Human Error
5/3/00	00399912401	ALASKA PETRO/BP EXPLORATION	y	West North Slope,Well Pad G,	Ethylene Glycol (Antifreeze)	20	Took Report, Case Closed 05-11-00		Overfill
6/14/00	00399916601	PHILLIPS ALASKA	y	East Prudhoe Bay, DRILLSITE 15-37,	Seawater	20	Took Report, Case Closed 06-14-00		Overfill
7/7/00	00399918902	SCHLUMBERGER/PHILLIPS	y	East Prudhoe Bay, PHILLIPS DRILL SITE 2-11,	Diesel	20	Took Report, Case Closed 07-09-00		Cargo Not Secured
7/30/00	00399921202	BPXA	ym	West Prudhoe Bay, Well Pad B, B-7 WELLHOUSE,	Crude	20	Took Report, Case Closed 07-30-00		Seal Failure
8/7/00	00399922001	ARCTEC ALASKA	ym	West North Slope, OLIKTOK LONG RANGE RADAR STATION,	Diesel	20	Took Report, Case Closed 08-15-00		Line Failure
12/11/00	00399934601	DOWELL SCHLUMBERGER/BPX	y	East Prudhoe Bay, DRILL SITE 07-01,	Methyl Alcohol (Methanol)	20	Took Report, Case Closed 12-21-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/7/01	01399900701	DOWELL SCHLUMBERGER/BPX (AK)	y	West Prudhoe Bay, R-PAD WELL 20,	Hydraulic Oil	20	Took Report, Case Closed 01-12-01		Leak
3/18/01	01399907701	BPXA	y	East Prudhoe Bay, WEST BEACH,	Diesel	20	Took Report, Case Closed 03-19-01		Leak
3/21/01	01399908001	WESTERN GECO	ym	West North Slope, NPRA, N 70 DEGREES 10' 26.54", W,	Hydraulic Oil	20	Took Report, Case Closed 03-22-01		Line Failure
4/10/01	01399910003	BPXA	ym	East Prudhoe Bay, ENDICOTT FIELD, WELL ROW 2, WELL,	Hydraulic Oil	20	Took Report, Case Closed 04-13-01		Valve Failure
4/28/01	01399911802	BPXA	y	East Prudhoe Bay, EAST OP AREA, WEST DOCK ROAD,	Hydraulic Oil	20	Took Report, Case Closed 04-28-01		Line Failure
6/14/01	01399916505	BPXA	y	EAST NORTH SLOPE L-3 GLYCOL HTR.,	Ethylene Glycol (Antifreeze)	20	Took Report, Case Closed 06-14-01		Seal Failure
6/27/01	01399917801	GREAT NORTHWEST TRUCKING	ym	East Prudhoe Bay DALTON HWY MILE MP 100, NORTHSIDE,	Diesel	20	Took Report, Case Closed 06-28-01		Rollover/Capsize
7/8/01	01399918901	BPXA	ym	East Prudhoe Bay EOA HEAVY EQUIPMENT STORAGE,	Hydraulic Oil	20	Phone Follow-up, Case Closed 07-20-01		Line Failure
7/31/01	01399921201	PEAK SERVICES/ BPX	y	East Prudhoe Bay SURFCOAT,	Diesel	20	Took Report, Case Closed 08-02-01		Overfill
10/8/01	01399928102	BPXA	y	East Prudhoe Bay, FS 2,	Corrosion Inhibitor	20	Took Report, Final Report 10-10-01		Line Failure
12/9/01	01399934301	BPXA	y	East Prudhoe Bay, DRILL SITE 2,	Diesel	20	Took Report, Final Report 12-10-01		Equipment Failure
12/28/01	01399936201	BPXA	y	Well Pad D,	Crude	20	Took Report, Case Closed 12-31-01		Unknown
3/12/02	02399907102	VECO ALASKA/BP EXPLORATION (ALASKA)	ym	East Prudhoe Bay, SPINE ROAD,	Methyl Alcohol (Methanol)	20	Phone Follow-up, Case Closed 08-15-02		Rollover/Capsize
3/18/02	02399907702	BPXA	y	West Prudhoe Bay, F PAD,	Methyl Alcohol (Methanol)	20	Took Report, Final Report 03-21-02		Valve Failure
6/12/02	02399916302	BPXA	y	Well Pad S,	Methyl Alcohol (Methanol)	20	Took Report, Final Report 06-14-02		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/11/02	02399925401	NABORS DRILL/BP EXPLORATION	y	Well Pad H,	Hydraulic Oil	20	Took Report, Case Closed 09-17-02		Equipment Failure
10/10/02	02399928302	BPXA	y	East Prudhoe Bay, DRILLSITE 4,	Produced Water	20	Took Report, Final Report 01-03-03		Seal Failure
10/13/02	02399928601	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Drill Site 11,	Process Water	20	Took Report, Complaint/Report Received 10-15-02		Crack
10/14/02	02399928701	BPXA	y	Well Pad L,	Hydraulic Oil	20	Took Report, Case Closed 10-16-02		Equipment Failure
11/6/02	02399931002	BPXA	y	East Prudhoe Bay, DS 9,	Crude	20	Took Report, Final Report 11-10-02		Seal Failure
5/29/03	03399914901	BPXA	y	Gathering Center 2 (GC-2),	Crude	20	Took Report, Case Closed 06-02-03		Overfill
6/6/03	03399915701	BPXA	y	Drill Site 18, Drill Site 18-33 Well Leak	Crude	20	Took Report, Final closure pending 07-24-07		Line Failure
6/7/03	03399915802	BPXA	y	Drill Site 18, Drill Site 18-33 Well Leak	Crude	20	Field Visit/s, Final Report 07-26-07		Line Failure
12/25/03	03399935901	BPXA	y	Drill Site 6,	Diesel	20	Phone Follow-up, Case Closed 01-14-04		Human Error
6/7/04	04399915903	BPXA	y	Drill Site 18, DS-18, Well 33 Crude Release, EOA	Crude	20	Field Visit/s, Other 07-24-07		Line Failure
6/14/04	04399916601	BPXA	y	Drill Site 4,	Crude	20	Phone Follow-up, Case Closed 06-28-04		Corrosion
7/3/04	04399918501	BPXA	y	Well Pad M,	Produced Water	20	Took Report, Case Closed 07-06-04		Line Failure
9/19/04	04399926301	BPXA	y	West Prudhoe Bay SPINE RD,	Hydraulic Oil	20	Took Report, Case Closed 09-21-04		Equipment Failure
2/26/05	05399905702	BPXA	y	Flow Station 2 (FS-2),	Hydraulic Oil	20	Took Report, Case Closed 03-01-05		Line Failure
4/1/05	05399909102	BPXA	y	Well Pad L,	Other	20	Took Report, Final Report 04-07-05		Human Error
8/11/05	05399922302	BPXA	y	Gathering Center 2 (GC-2),	Other	20	Took Report, Case Closed 08-15-05		Gauge/Site Glass Failure
9/25/05	05399926803	BPXA	y	Main Construction Camp (MCC),	Diesel	20	Took Report, Case Closed 09-27-05		Leak
9/26/05	05399926901	BPXA	y	Drill Site 18,	Diesel	20	Took Report, Case Closed 09-27-05		Human Error
10/26/05	05399929901	ASRC Energy Ser (formerly APC)	y	Drill Site 9 (DS-9),	Hydraulic Oil	20	Took Report, Case Closed 11-02-05		Equipment Failure
5/18/06	06399913802	ASRC Energy Ser (formerly APC)	ym	WEST OPERATING AREA, ACCESS ROAD,	Propylene Glycol	20	Took Report, Case Closed 05-19-06		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/21/06	06399917202	ASRC Energy Ser (formerly APC)	y	Flow Station 2 (FS-2), Truck Rollover on road to FS 2	Diesel	20	Field Visit/s, Case Closed 07-13-06		Rollover/Capsize
7/19/06	06399920001	BPXA	y	Well Pad C,	Crude	20	Took Report, Case Closed 07-21-06		Seal Failure
01/16/07	07399901601	BPXA	y	Seawater Injection Plant (SIP),	Seawater	20	Took Report, Case Closed 01-22-07		Overfill
02/28/07	07399905902	Pioneer Natural Resources	y	EAST NORTH SLOPE DRILL SITE 14, Pioneer DS-14 and Spine Road	Diesel	20	Field Visit/s, Final closure pending 07-23-07		Equipment Failure
05/15/07	07399913501	BPXA	y	Drill Site 4,	Hydraulic Oil	20	Took Report, Case Closed 05-21-07		Valve Failure
06/16/07	07399916701	BPXA	y	Pad 3, BP East Prudhoe Bay	Diesel	20	Took Report, Case Closed 07-16-07		Unknown
06/24/07	07399917501	ASRC Energy Services	y	Drill Site 3, BP East Prudhoe Bay	Emulsion Breaker	20	Took Report, Case Closed 07-23-07		Equipment Failure
07/24/07	07399920503	ALASKA WEST EXPRESS	y	BULK FUEL STATION, WOA,	Methyl Alcohol (Methanol)	20	Took Report, Case Closed 08-09-07		Seal Failure
08/26/07	07399923802	BPXA	y	Flow Station 3 (FS-3), BP-East	Engine Lube Oil	20	Took Report, Complaint/Report Received 08-27-07		Seal Failure
10/16/07	07399928901	BPXA	Y	Central Gas Facility (CGF), Central Gas Facility (CGF)	Therminal	20	Took Report, Complaint/Report Received 10-17-07		Other
10/10/77	77360128301	MUKLUK FREIGHT LINES, INC.	y	PRUDHOE BAY COTU LOADING DOCK, PAD	Diesel	19	Sorbent pads		
6/16/89	89360116704	BPXA	y	GC 1, Well 10, contained on pad	Diesel	19	Gravel removed with loader, taken to snow melter for temp storage.	Interim Containment	Fuel spilled during fueling and servicing of injection pumps.
2/7/05	05399903801	ASRC Energy Ser (formerly APC)	y	Well Pad L,	Methyl Alcohol (Methanol)	19	Took Report, Case Closed 02-07-05		Equipment Failure
1/26/89	89360102602	SAPC Endicott	m	West of Module 604, contained on pad	Hydraulic oil	18	Congealed fluid scooped off snow pack	Recycled	hose fitting worked off and fluid leaked out overnight
10/17/89	89360129003	Dowell Schlumberger	m	Fuel Pump Stop, front of pad, Contained on pad	Diesel	18	Absorbents used, gravel removed. stored in 55 gal. drums, to be taken to nsb owp 10-23-89	Interim Containment	Open fuel nozzle.
12/27/89	89360136101	Dowell Schlumberger	y	DS 11, Well 12, 8 to 10 ft diameter of pad	Diesel	18	Pads used on free liquid, snow/ice taken to ds yard. material will be melted, separated, and cleaned up with pads.	Approved Landfill	
6/5/90	90360115603	Little Red Service Company	y	DS 16 Well 33, Not given	Diesel	18	Absorbents used. disposal not given.	Not Given	FAXed by troopers.
7/14/91	91360919501	ARCO Alaska, Inc.	y	DS 11 Well 6, Contained on pad	Antifreeze	18	Loader removed gravel, taken to pad 3 sowp.	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/2/03	03399900201	BPXA	y	East Prudhoe Bay, L4,	Methyl Alcohol (Methanol)	18	Took Report, Final Report 01-03-03		Overfill
2/28/05	05399905901	BPXA	y	Well Pad D,	Hydraulic Oil	18	Took Report, Case Closed 02-28-05		Seal Failure
3/25/05	05399908402	BPXA	y	Drill Site 11,	Hydraulic Oil	18	Took Report, Case Closed 03-31-05		Equipment Failure
10/2/06	06399927501	ALASKA INTERSTATE CONSTRUCTIO N	y	Well Pad Z,	Hydraulic Oil	18	Took Report, Case Closed 10-02-06		Line Failure
12/17/06	06399935102	BPXA	y	Well Pad J,	Diesel	18	Phone Follow-up, Case Closed 12-19-06		Crack
8/18/86	86360123001	ARCO Alaska, Inc.	y	DS 16, Well 24 Prudhoe,	Crude	17	Soaked up with sorbents	Incinerated	400 gallon water tank on drill rig was pumped out prior to moving
12/12/89	89360134605	BPXA	y	Well C 27, Contained in snow adjacent to well and in pit	Crude	17	Snow removed with loader, taken to t pad for recovery.	Recycled	Seal failed on hydraulic pack-off on injector head.
9/11/90	90360925401	BPXA	y	GC3 Skid 20, Contained on gravel	Antifreeze	17	Gravel removed, taken to arco pad 3.	Approved Landfill	Valve left untagged and open during startup.
3/30/02	02399908901	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Well Pad A,	Hydraulic Oil	17	Phone Follow-up, Case Closed 04-01-02		Seal Failure
4/13/02	02399910301	PEAK OILFIELD SER/BP EXPLORATION	ym	Pipeline right-Of-Way,	Hydraulic Oil	17	Took Report, Case Closed 04-16-02		Equipment Failure
7/15/02	02399919601	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	17	Took Report, Final Report 07-15-02		Human Error
2/19/02	02399905001	BPXA	y	Flow Station 1 (FS-1),	Diesel	16	Field Visit/s, Final Report 07-07-02		Seal Failure
5/27/06	06399914701	BPXA	y	Well Pad L,	Drilling Muds	16	Phone Follow-up, Case Closed 05-30-06		Puncture
5/1/81	81360112101	Sohio	y	D 14, D pad, Not given.	Crude	15	Not given.	Not Given	Entered 10-26-89 from old records. Follow up date 5-19-81.
5/7/81	81360112702	Sohio	y	Well J-11, Not given.	Crude	15	Not given.	Not Given	Entered 10-26-89 from old records. Follow up dates 5-19-81. Product Arctic pack and crude.
5/31/81	81360115101	Sohio	y	Well B-8, Prudhoe, Not given.	Acid	15	Not given.	Not Given	Entered 10-26-89 from old records. Hydrochloric. Follow up 6-4 and 7-28-81.
7/26/81	81360120701	Sohio	y	C 10, C Pad, Prudhoe, Not given.	Hydraulic oil	15	Not given.	Not Given	Entered 10-30-89 from old records. Follow up 8-7-81.
12/14/81	81360134801	Sohio	y	Spine road between BOC and GC 1, Not given	Hydraulic oil	15	Not given	Not Given	Entered 2-21-90 from old records. Follow up date 12-15-81.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/9/82	82360116002	ARCO Alaska, Inc.	y	Drill Site #14-Manifold Bldg., Prudhoe Bay, Oil on manifold bldg. side, gravel pad&holding pit	Crude	15	Vacuum, absorbent pads, and steam cleaner.	Multiple	Disposal: Oily Waste Injection Well Pad 3 and pads to NSB incinerator. Entered from from old records 4-28-90.
6/28/82	82360117901	ARCO Alaska, Inc.	y	Crude Oil Topping Unit,Prudhoe Bay, Oil on gravel pad only.	Crude	15	Loader piked up contaminated gravel.	Padspread	Crude was also mixed with diesel: ratios not given. Entered from old records 4-28-90.
2/19/83	83360105001	SOHIO	y	C Pad, Wellhouse C-2, No enviro damage	Antifreeze	15	Loader removed material. taken to c pad reserve pit.	Interim Containment	Spilled during servicing operations. Entered from old records 4-9-91.
5/16/83	83360113601	SOHIO	y	Stores Pad, Chemical Bldg., Contained on pad.	Other	15	Sorbents.	Not Given	Type: Anti-foam. Cause: Transfer of suction hose. Entered from old records 6/25/90.
5/19/83	83360113901	SOHIO	y	Well R 15, Prudhoe Bay, Contained on pad.	Diesel	15	Vacuum truck & to be reinjected.	Subsurface Injection	Entered from old records 6/25/90.
6/2/83	83360115306	Nabors Well Servicing	m	Prudhoe Bay, Unknown	Other	15	Contaminated gravel removed & taken to nsb landfill.	Approved Landfill	Type: oily water. Entered from old records 6/25/90.
9/3/83	83360124601	SOHIO	y	Mud Plant, Stores Yard, None.	Diesel	15	Vacuum truck/bucket loader.	Unknown	Entered from old records 7/8/90.
9/7/83	83360125001	SOHIO	y	Spine Rd., Prudhoe, None	Heavy grease	15	Grease shoveled into barrel.	Unknown	Cause: Bbl. fell off truck. Entered from old records 7/8/90.
11/3/83	83360130701	ARCO Alaska, Inc.	y/m	ARCO's 100% Pad, Prudhoe, Unknown.	Crude	15	Vac truck, gravel removed.	Not Given	Type: Crude/H2O mix. Cause: Sump Pump Failure. Entered from old records 7/25/90.
12/12/83	83360934601	ARCO Alaska, Inc.	m	1 Mi. E. of Spine Rd., Unknown	Diesel	15	Not given.	Not Given	Called in on Code A phone. Entered from old records 7/30/90.
2/17/85	85360104801	Kodiak Oilfield Haulers	y	Sag I Sohio,	Crude	15	Scraped up con. snow		
2/18/85	85360104901	Sohio	y	GC-2 Skid 475,	Glycol	15	Floor dry, con. snow and floor dry scraped up		
2/21/85	85360105205	Sohio	y	WSW Skid 311,	Glycol	15	Removed contaminated material with bucket loader		
3/6/85	85360106501	Sohio	y	BOC pad,	Crude	15	Con. snow scraped up		
6/28/85	85360117901	Sohio	y	CPS Skid 171,	Mineral oil	15	Sorbent pads, removed contaminated gravel		
9/19/85	85360126202	SOHIO Alaska Petroleum Company	y	GC-1, skid S_A,	Glycol	15	Picked up contaminated gravel		
10/19/85	85360129201	SOHIO Alaska Petroleum Co.	y	GC-1, WSW,	Glycol	15	Soaked up with snow/picked up with morooka		
3/6/86	86360106501	Sohio Alaska Petroleum Company	y	A-Pad, Skid 54,	Crude	15	Contaminates scraped up	Interim Containment	
4/14/86	86360110401	Kodiak Oilfield Haulers	y	Prudhoe Base Yard,	Unknown	15	Scraped up contaminated snow	Approved Landfill	
4/20/86	86360111001	Sohio Alaska Petroleum Company	y	GC 2 Skid 4,	Crude	15	Scraped up contaminants	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/29/86	86360118003	Sohio Alaska Petroleum Company	y	WSW Skid 71,	Turbine fuel	15	Soaked up w/sorbents/gravel scraped up	Incineration/approved Landfill	Product turbine fuel.
7/22/86	86360120302	Sohio Alaska Petroleum Company	y	GC-3, Skid 484,	Crude	15	Soaked up w/sorbents-contaminated gravel scraped u	Incineration/approved Landfill	Received another final report 8/27/86
9/18/86	86360126101	Standard Alaska Production Com	y	GC-11, Skid 301,	Crude	15	Contaminated gravel scraped up	Interim Containment	
11/1/86	86360930501	Standard Alaska Production Com	y	Between VMS & Cold Storage,	Glycol	15	Scraped up contaminated snow.	Interim Containment	
11/12/86	86360131601	Standard Alaska Production Com	y	GC-2, Skid 402,	Crude	15	Contaminated snow shoveled up	Incinerated	
11/12/86	86360131602	Kodiak Oilfield Haulers	y	Shop - Prudhoe Bay,	Diesel	15	Soaked w/sorbents-contaminated gravel removed	Unknown	
4/3/87	87360109301	ARCO Alaska, Inc.	y	DS 11,	Crude	15	Contaminants scraped up	Recycled	
5/5/87	87360112501	Standard Alaska Production Com	y	B-Pad, Rig 1ES,	Diesel	15	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-gravel To J-pa	
6/24/87	87360117501	ARCO Alaska, Inc.	y	DS 9, Gravel pad beneath manifold building	Crude	15	Soaked up w/sorbents-contaminants scraped up	Sorbents Incin-contaminants Spread	
12/19/87	87360135301	Halliburton Services	m	POL Tank Farm,	Diesel	15	Contaminants scraped up.	Approved Landfill	
2/9/88	88360104001	ARCO Alaska, Inc.	y	DS 3,	Hydraulic oil	15	Soaked up w/sorbents-contaminants scraped up	Interim Containment	Split filter.
2/24/88	88360905501	ARCO Alaska, Inc.	y	C Pad,	Solvent 390	15	Contaminated snow scraped up	Recycled	Valve jarred open.
2/29/88	88360106001	ARCO Alaska, Inc.	y	MCC Gas Depot, Diked area around Bulk Tank #2	Gasoline	15	Contaminants scraped up	Recycled	
3/18/88	88360107801	ARCO Alaska, Inc.	y	DS 16, Well 3,	Hydraulic oil	15	Soaked up w/sorbents-contaminants scraped up	Sorbs To Nsb-contams To Pade 3 Owp	
4/24/88	88360111501	ARCO Alaska, Inc.	y	Crude Oil Topping Plant,	Diesel	15	Soaked up with sorbents	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/11/88	88360113201	Standard Alaska Production Com	y	S-20,	Diesel	15	Contaminants scraped up	Approved Landfill	
5/15/88	88360113601	Standard Alaska Production Com	m	Annex 1, D-Wing,	Gasoline	15	Contaminants scraped up	Incinerated	
5/27/88	88360114801	ARCO Alaska, Inc.	y	DS 16, Well 7,	Bentonite water	15	Contaminants scraped up	Approved Landfill	Darrell (Recorder)
6/4/88	88360115601	ARCO Alaska, Inc.	y	Lisburne Production Center, contained on pad	Glycol	15	Absorbents	Incinerated	
6/19/88	88360117102	ARCO Alaska, Inc.	y	DS 3, Well 26, DS 3, Well 26	Diesel	15	Used sorbents; picked up contaminated gravel	Incinerated	
7/17/88	88360119902	ARCO Alaska, Inc.	y	DS 6, Well 8, contained on pad	Hydraulic oil	15	Absorbents/ contaminated gravel graded into pad	Incinerated	
7/20/88	88360120202	ARCO Alaska, Inc.	y	DS 18, Well 16, 20 square feet on pad Drill Site 18 Well #16	Unknown	15	Raked back into pad		
7/20/88	88360120206	ARCO Alaska, Inc.	y	DS 18, Well 16, 15 X 20 foot area of pad	Seawater	15	Contaminated gravel and material graded into pad		
7/31/88	88360121305	Standard Alaska Production Com	y	Well Z-2, contained on pad	Diesel	15	Sorbents/gravel scraped up bucket loader & shovels	Multiple/see Disposal	Line broke, caused spray Damaged line replaced.
9/5/88	88360124901	ARCO Alaska, Inc.	y	DS 9 Manifold Building, contained on gravel pad	Crude	15	Absorbents/gravel/fluid removed with supersucker	Incineration/approved Landfill	Faulty sight glass reading allowed crude to be carried out of vent
9/10/88	88360125403	ARCO Alaska, Inc.	y	DS 17, Well 5, contained on pad	Diesel	15	Absorbents	Incinerated	Diesel back-siphoned.
10/6/88	88360128001	ARCO Alaska, Inc.	y	Main Const. Camp gas station, contained on pad	Gasoline	15	Absorbemts, loader for snow	Recycle, Incinerate	Hose fell during refueling.
10/7/88	88360128105	ARCO Alaska, Inc.	y	MCC fuel dock/station, contained	Gasoline	15	Sorbents/removed snow with loader	Multiple/see Comments	
11/7/88	88360131201	SAPC Endicott	y	Wells C-7 & C-35, contained on pad	Diesel	15	Loader used on snow and gravel	Approved Landfill	messy condition during well work. Diesel and hydraulic fluid.
11/12/88	88360131702	ARCO Alaska, Inc.	y	DS 11, Well 13, contained on pad	Seawater and cement	15	Loader for material and contaminated snow	Approved Landfill	tank overfilled during squeeze operation
11/28/88	88360133303	SAPC Endicott	y	Well G-11, contained on pad	Diesel	15	Snow/gravel with loader	Approved Landfill	fluids leaked from hose connections and equipment during well work
11/30/88	88360133501	SAPC Endicott	y	Well A-33, not given	Crude	15	Contaminated snow/scraped up with shovels/loader	Recycled	mixture of crude and diesel
12/14/88	88360134904	ARCO Alaska, Inc.	y	DS Maintenance Yard, contained on pad	Crude	15	Snow cleaned up by shovel	Approved Landfill	tanker truck overflow

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/8/89	89360100801	ARCO Alaska, Inc.	y	Lisburne Production Center, 5'x5' area on gravel pad/Center of pad	Crude	15	Loader used to remove material and con. snow	Recycled	tanker was inadvertently filled past its' capacity
2/4/89	89360103506	SAPC Endicott	y	W Pad, 150' from Well W-31, contained on pad	Methanol	15	Contaminate removed by loader and grader	Recycled	
2/24/89	89360105502	ARCO Alaska, Inc.	y	DS L1, Well 9, 20' x 10' area by well house	Methanol	15	Scraped up area with loader	Approved Landfill	cement plugged hose, plug removed, released mix 30%meth,70%water,cemen
3/1/89	89360106002	ARCO Alaska, Inc.	y	Inter. W.Dock Rd & Lisburne, contained on pad	Hydraulic oil	15	Loader scraped up snow	Approved Landfill	suspected leak from ruptured hydraulic hose. ARCO discovered/cleaned
3/10/89	89360106902	ARCO Alaska, Inc.	y	DS 6, well 10, contained on pad	Diesel	15	Contaminated snow scraped up with loader. taken to pad 3.	Approved Landfill	Slop oil trailer overfilled while pump truck was emptying displacement tanks.
3/14/89	89360107302	ARCO Alaska, Inc.	y	DS 11, Well 16, contained on pad	Diesel	15	Shovels and loader used on snow. melted and injected at pad 3	Subsurface Injection	grease seal lost on slop tank and allowed excess fluid to escape.
3/20/89	89360107903	Dowell Schlumberger	y	Point McIntire, None. Contained on pad	Antifreeze	15	Shoveled snow and material, taken to waste water recovery system for recycling	Recycled	Broken radiator hose.
3/26/89	89360108504	BPXA	y	Well X 25, None. Contained on pad.	Crude	15	Snow and gravel removed by loader. taken to nsb ow pit.	Approved Landfill	Camco wireline operator failed to close ballvalve while venting gas/oil.
4/1/89	89360109104	BPXA	y	GC-1, Skid 20, None. All contained in snow on pad	Crude	15	Contaminated snow scraped up with loader. taken to snow melter for recovery.	Recycled	Oil vented during start-up at skid 20.
4/6/89	89360109606	BPXA	y	C 13, Contained on pad.	Methanol	15	Contaminates removed by loader, some hand shovels. material transported to melter at a3/w2.	Approved Landfill	Line separation during fluid transfer.
4/14/89	89360110401	ARCO Alaska, Inc.	y	DS Maintenance Bldg, Contained on snow packed gravel pad	Diesel	15	Loader used to scrape up material and snow. recycled at fs 1.	Recycled	Fuel nozzle stuck open while filling tank and tank overfilled.
4/27/89	89360111702	ARCO Alaska, Inc.	y	DS 6, on road, contained on snow on pad	Antifreeze	15	Picked up with hand shovels, absorbents. bagged and taken to nsb incinerator	Incinerated	Mixture 50% glycol, 50% water spilled when hose disconnected from nozzle.
5/20/89	89360114001	Halliburton Services	y	DS 7 W 12, contained on gravel	Gelled water	15	Scraped up gravel, taken to arco's pad 3	Approved Landfill	Mixture of water-based gel spilled when leak developed in discharge iron.
5/21/89	89360114105	ARCO Alaska, Inc.	y	DS 7, Well 12, contained on pad	Grelled water	15	Loader scraped up, taken to pad 3.	Approved Landfill	Mixture water/gel, percentages not given. Gel is polymer based with KCL. While breaking down hardline, gel left in line spilled onto pad.Original spill message left on ADEC recorder, never rec'd by ADEC.
5/21/89	89360114107	Halliburton Services	y	DS 7, well house #12, snow	Gelled water	15	Scraped up snow and put in slop tank. taken to pad 3, arco will dispose of.	Approved Landfill	Water base polymer, 40/1000.
5/31/89	89360115101	BPXA	y	GC 1 (WSW) Dirty Water tank, Contained on pad	Crude	15	Loader used, gravel taken to lined dike on santa fe pad.	Interim Containment	Accumulated crude during winter spilled from drum set at off loading site.
7/12/89	89360119301	BPXA	y	BOC Pad, contained on pad	Engine lube oil	15	Tank pumped, soaked up with absorbents, gravel removed. sorbents to nsb incinerator, gravel to sante fe pad.	Multiple	Front seam on 500 gallon tank cracked.
7/15/89	89360119705	BPXA	y	GC 2, Skid 20, contained on pad	Antifreeze	15	Gravel removed with loader, taken to santa fe pad.	Approved Landfill	Boilers overpressured due to high gas pressure.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/16/89	89360119706	BPXA	y	J Pad, skid 54, contained on pad	Crude	15	Gravel removed with loader, taken to nsb sowp.	Approved Landfill	Valve position incorrect.
8/8/89	89360222101	BPXA	y	S Pad NE of pigging pit, contained on pad.	Other	15	Absorbents used, gravel removed. sorbents to nsb incinerator, gravel to lined berms on santa fe pad.	Multiple	Mixture seawater sludge. Launched pig with gas, signal failed, gas built up in line and pushed sludge mist onto pad.
9/9/89	89360125201	ARCO Alaska, Inc.	y	FS 1, contained on gravel pad	Hydraulic oil	15	Absorbents used, gravel removed. sorbents to incinerator dumpster, gravel to nsb owp	Multiple	Hydraulic hose to crane outrigger cylinder ruptured.
10/30/89	89360930302	Halliburton Logging	y	DS 7, Well 21, Contained on gravel	Methanol	15	Snow and gravel dug up. arco took care of disposal.	Unknown	Pump line closed or frozen, relief valve discharged.
11/7/89	89360131103	ARCO Alaska, Inc.	y	FS 1, Contained on pad.	Crude	15	Loader removed gravel, crude, snow. taken to nsb sowp.	Approved Landfill	Hose came loose from connection while pressurized.
12/29/89	89360936301	BPXA	y	Well C-1, Contained in snow on pad	Antifreeze	15	Snow removed by loader, taken to t pad pit for reclamation.	Recycled	Hose failure on squeeze unit. No tundra or water affected. Visual inspection shows no further evidence of contamination.
12/31/89	89360136501	ARCO Alaska, Inc.	y	DS 4, Contained on pad.	Diesel	15	Sorbents used, taken to nsb incinerator. snow/gravel removed, taken to nsb sowp.	Incineration/approved Landfill	Truck driver hit drilling rig valve and broke it off.
1/20/90	90360102001	BPXA	y	BOC bulk loading ramp, Contained on pad	Diesel	15	Sorbents used, material removed. sorbents to nsb incinerator, contaminants to a3w2.	Incineration/approved Landfill	Offloading valve in bottom of tanker leaking.
1/21/90	90360102105	BPXA	y	GC2 Ullage Tank, Contained on pad	Crude	15	Absorbents used, contaminants shoveled up, taken to nsb incinerator.	Incinerated	Contractor Hot Oil Services.
1/21/90	90360102106	BPXA	y	BOC fuel pumps, Contained on pad	Gasoline	15	Absorbents used, grader removed contaminants. sorbents to nsb incinerator, contaminants to a3w2 for recovery.	Multiple	
2/3/90	90360103402	Conoco	y	C Pad Well C 20, Gravel pad	Diesel	15	Absorbents used, bagged, put into nsb burnable dumpster.	Incinerated	Failed seal and chick-sin joint.
3/8/90	90360106701	ARCO Alaska, Inc.	y	DS 16 Well 15, Contained on pad	Crude	15	Super sucker used, taken to pad 3.	Subsurface Injection	Leaking hatch on tiger tank. Mixture water gel, crude and methanol. No ratios given.
3/19/90	90360107803	BPXA	y	GC 1 Skid 326, Contained on pad	Crude	15	Scraped snow up with loader and shovels. taken to t pad.	Approved Landfill	Hose and fitting separated while off loading.
4/7/90	90360109701	HB and R	y	Y Pad on road between G & R Pad, Contained on pad	Diesel	15	Shovels used, loader. taken to kcf snow melter, liquid injected.	Subsurface Injection	Fuel tank overfilled and heat expansion caused leak.
5/28/90	90360114805	BPXA	y	Pad B well 10, Contained on pad	Hydraulic oil	15	Loader and dumptruck, absorbents used. sorbents to nsb incin, gravel to a3w2 to be rinsed.	Multiple	While swinging crane, house lock engaged, knocked top of filter housing off.
5/31/90	90360115101	ARCO Alaska, Inc.	y	LPC, Contained on pad	Crude	15	Gravel removed by supersucker, taken to pad 3.	Approved Landfill	Off-loading to slop oil when hose broke.
6/5/90	90360115602	ARCO Alaska, Inc.	y	CCP, Contained on pad	Hydraulic oil	15	A loader and a dumptruck were used to remove the material and contaminated gravel.	Approved Landfill	A filter blew off of a high pressure line on a crane and material sprayed onto pad.
6/13/90	90360116405	BPXA	y	H Pad, Contained on pad	Crude	15	Gravel shoveled up, taken to t pad.	Approved Landfill	Bleed hose came out of barrel.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/15/90	90360216601	ARCO Alaska, Inc.	y	DS 12 Well 17 Audi #4 Rig, Contained on pad	Seawater	15	Gravel removed, taken to pad 3.	Approved Landfill	Hose disconnected before valve closed.
6/18/90	90360916901	BPXA	y	BOC Store Yard, Contained on pad	Acid	15	Soad ash added to pooled acid, gravel removed with loader. neutralized gravel replaced on pad.	None Required	Bottom fell out of acid container spilling HCl acid (31.45%).
6/26/90	90360117705	BPXA	m	Price Pad West Warehouse, Contained on pad	Diesel	15	Sorbents used, gravel removed. sorbents to nsb incinerator, gravel to a3w2 rinse tank.	Incineration/approved Landfill	Fuel filter blockage caused generator to overflow.
9/19/90	90360126201	Green Alaska	m	Spine Road near Little Put River, Gravel on road	Hydraulic oil	15	Shovels removed gravel, bagged, put in berm at green ak/northland ak	Interim Containment	Northland Alaska is a division of Green Alaska.
10/1/90	90360927405	ARCO Alaska, Inc.	y	DS L1 Well 28, Contained on pad	Methanol	15	Absorbents, vac truck used. loader removed gravel. absorb to nsb incin., gravel pad 3.	Multiple	While pumping into well, when valve was opened methanol splashed out. Removed 1 cu yd material.
10/4/90	90360127702	ARCO Alaska, Inc.	y	DS 4 Well 15, Snow/gravel/ice	Diesel	15	Loader removed material, stockpiled on liner at ds 4 for future disposal.	Interim Containment	Line broke on engine heater.
10/13/90	90360128602	BPXA	y	R Pad R-9, Gravel pad	Crude	15	Snow shoveled into bags, taken to nsb incin.	Incinerated	Vac truck hose improperly connected.
10/15/90	90360928801	Alaska Petroleum Contractors	y	East of Webster Lake on Spine Road, Gravel road	Methanol	15	Evaporated. will sample gravel, remove if necessary.	None Required	Valve vibrated open during transport. Gravel sampling will be on final. Final did not contain sampling.
10/31/90	90360130402	BPXA	y	GC 2, Contained on pad	Diesel	15	Loader removed gravel, took to arco pad 3.	Approved Landfill	
11/5/90	90360930901	BPXA	y	GC 3 Skid 20, Contained in snow and gravel	Antifreeze	15	Snow and gravel removed, taken to t pad disposal pit.	Approved Landfill	Re boiler overpressured during testing venting triethylene glycol and condensate liquids.
11/13/90	90360131702	ARCO Alaska, Inc.	y	DS 9 NE Corner, Snow and ice	Hydraulic oil	15	Absorbents used, hand shovels. materials melted, recycled. pads bagged incinerated.	Multiple	Joint nut leaked.
11/14/90	90360931802	BPXA	y	GC 2 Skid 301, Contained on pad	Antifreeze	15	Snow/gravel scraped up, taken to pad 3.	Approved Landfill	Fitting leaked on trace line.
11/18/90	90360232202	ARCO Alaska, Inc.	y	DS 15 Well 2, Contained on snow on pad	Seawater	15	Loader and bucket removed material. taken to pad 3 sw pit.	Approved Landfill	Suspect well work activity caused spill of gelled seawater.
11/19/90	90360132301	ARCO Alaska, Inc.	y	DS 7 Well 13, Contained on snow on pad	Hydraulic oil	15	Loader removed material. melted, injected pad 3.	Subsurface Injection	Hose coupling failed.
11/21/90	90360132501	BPXA	y	R Pad Well 22, Contained on pad under unit	Crude	15	Absorbents used on pooled diesel/crude. snow/gravel removed with loader. sorbents to nsb incin., snow/gravel to arco pad 3.	Other	Fitting inside unit failed. Mixture crude/diesel.
12/3/90	90360133702	BPXA	y	X Pad Well 19, Contained on pad	Diesel	15	Loader removed material, placed in t pad lined pit.	Interim Containment	
12/19/90	90360135302	ARCO Alaska, Inc.	y	DS L4 Well 2, Ice/snow on pad	Diesel	15	Dump truck, loader used. taken to pad 3 sw pit.	Approved Landfill	
1/12/91	91360101201	ARCO Alaska, Inc.	y/m	Sag River Flood Plain N. of bridge, Ice/snow on gravel pad	Crude	15	Absorbents, shovels used. recycled ps 1.	Recycled	80% crude, 20% water spilled from pipe being moved.
1/21/91	91360102102	BPXA	y	F Pad Well 39, Contained on pad	Diesel	15	Absorbents used, loader and shovels. taken to t pad for summer recovery.	Interim Containment	Contractor hit drum and punctured it.
1/28/91	91360102802	BPXA	m	Big Skookum Bridge, Snow below bridge	Hydraulic oil	15	Scalped contaminated snow, placed in melt tank.	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/23/91	91360105403	BPXA	m	Camp #4, Unknown enviro. damage	Diesel	15	Snow picked up, incinerated on site. 4 cups grass seed and fertilizer put down.	Incinerated	Contractor GECO spilled in remote area.
3/15/91	91360907402	BPXA	y	A Pad, Contained on pad	Methanol	15	Loader, shovels used. contaminates hauled to melter at a3w2.	Interim Containment	Material located under vehicles in transfer area.
3/16/91	91360107502	BPXA	y	G Pad, Contained on pad	Antifreeze	15	Grader, loader, shovels used. taken to t pad lined pit.	Interim Containment	Leaks located in several locations during routine inspection.
3/17/91	91360107604	BPXA	y	X Pad various locations, Contained on pad	Diesel	15	Loader, shovel used. material taken to t pad lined pit.	Interim Containment	X pads # 13,12,10,8,7,4,2 and 1. Diesel, glycol, crude and hydraulic.
3/20/91	91360907902	BPXA	y	G Pad G-7, Contained on pad	Methanol	15	Loader, shovels used. material taken to t pad lined pit.	Interim Containment	
3/25/91	91360108403	Conoco	y	G 2 Well house, 8 x 10 snow and gravel	Crude	15	Snow/gravel removed, taken to d pad temp storage.	Interim Containment	Crude in vac truck foamed out.
4/11/91	91360910101	BPXA	y	N Pad Well 11, Contained on pad	Antifreeze	15	Material scraped up, taken to a3w2 melt tank.	Interim Containment	Discovered during pad inspection.
4/13/91	91360210301	ARCO Alaska, Inc.	y	DS 4 manifold bldg., Contained on pad	Produced water	15	Shovels removed frozen material/snow. taken to pad 3 injections.	Subsurface Injection	Gasket leak during transfer of pigging material (99% prod. water, 1% crude).
4/20/91	91360111003	Atlas Wireline	m	Deadhorse Maintenance Terminal, Not given	Waste crankcase	15	Vac truck, sorbents used. sorbents left in place for containment.	Interim Containment	Equipment shutdown until problem found.
4/29/91	91360911901	BPXA	y/m	Sante Fe Pad Corrosion Trailer, Contained on pad	Other	15	Loader, shovels used, taken to a3w2 melt tank.	Interim Containment	Corrosion in line allowed Chevron solvent to leak through holding tank, through floor of trailer onto ice and snow.
5/6/91	91360112602	BPXA	y	Z Pad Well 18, Contained in snow on pad	Crude	15	Loader removed snow. taken to t pad pit.	Approved Landfill	Oil found leaching from snow adjacent to wellhouse during inspection.
5/16/91	91360113602	BPXA	y	Wellhouse 1-11, None	Diesel	15	Absorbent pads used, gravel scraped up. pads put in drum liner; snow/ice/gravel separated, properly disposed of.	Other	No cause given. Remedial action contained reminder to fuelers to monitor during fueling operation.
5/24/91	91360114403	BPXA	y	BOC Pad, Contained on pad	Heavy grease	15	Absorbents used. taken to nsb burnable dumpster.	Incinerated	Forklift with one barrel loaded swung into 2nd barrel.
6/5/91	91360915601	ARCO Alaska, Inc.	y	C Pad Haz Waste Storage, Lined Pad area	Other	15	Hand shovels, bucket used. taken to pad 3 sowp.	Approved Landfill	GR 1080 Chevron Chaser spilled from ISO bulk tank.
6/22/91	91360117301	ARCO Alaska, Inc.	y	CGF, Contained on pad	Diesel	15	Loader, backhoe used. taken to pad 3 swp.	Approved Landfill	Day tank.
7/5/91	91360118603	ARCO Alaska, Inc.	y	DS 11 Well 6, Gravel pad	Diesel	15	Loader removed gravel, took to pad 3 sowp.	Approved Landfill	Check valve failure caused overfilling of tank.
7/9/91	91360119005	BPXA	m	Price Pad parking area, Contained on pad	Diesel	15	Loader removed material, took to arco pad 3.	Approved Landfill	Suspect leaky tiger tank.
7/14/91	91360119501	ARCO Alaska, Inc.	y	DS 3, Contained on pad	Engine lube oil	15	Super sucker removed gravel, taken to pad 3 sowp.	Approved Landfill	Generator gauge broke and released oil onto pad.
7/17/91	91360119804	Production Testing Services	y	West Beach Pad #4 Well, No damage	Crude	15	Shoveled into bags, taken to pad 3.	Incineration/approved Landfill	Equipment plugged with sand.
8/3/91	91730121503	Unknown	y	MCC, 200 x 200 tundra and pond	Unknown	15	Absorbent boom, handrakes. debris taken to pad 3.	Approved Landfill	Unknown party spilled unknown hydrocarbon, possilby lube oil. Tundra will be monitored for any enviro. changes.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/12/91	91730122402	BPXA	y	U Pad Well 3, Contained on pad	Diesel	15	Loader and end-dump removed gravel, disposal arco's pad 3.	Approved Landfill	Needle valve developed leak.
8/17/91	91730122901	ARCO Alaska, Inc.	y	DS 15 Well 25, Gravel	Diesel	15	Loader, truck used. material taken to pad 3 swp.	Approved Landfill	
8/28/91	91730224001	VECO	y	Seawater Plant, No damage	Seawater	15	Scraped up 1/2 yd gravel and seawater with loader. took gravel to pad 3.	Approved Landfill	On recorder.
10/22/91	91730129501	ARCO Alaska, Inc.	y	DS 4 Well 38, Gravel pad	Diesel	15	Loader removed snow. taken to fs 1 recycling unit.	Recycled	
11/10/91	91730131402	ARCO Alaska, Inc.	y	CGF Mod 4906, Contained on pad	Diesel	15	Absorbents used, gravel removed. disposal not decided yet.	Unknown	On recorder.
11/10/91	91730931401	BPXA	y	Y Pad Well 29, Contained on pad	Methanol	15	Contaminants to be picked up with loader, shovels when work is completed on well. to be taken to pad 3 lined pit.	Approved Landfill	Faulty seal on tiger tank.
12/2/91	91730133601	ARCO Alaska Inc.	y	DS 9, Contained on pad	Hydraulic oil	15	Vacuumed up fluid/snow. taken to pad 3.	Approved Landfill	
12/30/91	91730136401	BPXA	y	GC 3 Pad Skid 318, Contained on pad	Engine lube oil	15	Absorbents used, loader. materials taken to a3w2 melt tank.	Interim Containment	High level switch failure. Rec'd additional final 4/17/92 with no additional info.
2/9/92	92730204002	BPXA	y	F Pad Well 43, No damage	Seawater	15	Snow/ice scraped up, taken to t pad.	Approved Landfill	Valve opened by accident.
2/21/92	92730905202	ARCO Alaska Inc.	y	DS 12 Well 12-25, 900 sq ft sprayed on pad	Methanol	15	Hand tools, shovels used. injected pad 3.	Subsurface Injection	2% methanol, 98% seawater.
2/22/92	92730105303	Alaska Petroleum Contractors	m	Not given, 2 cu yd snow	Crude	15	2 cy snow removed, melted, recycled fs 1.	Recycled	50% water, 30% crude, 20% diesel.
3/10/92	92730907101	BPXA	y	Point MacIntyre, lower pad area, Contained on pad	Methanol	15	Material shoveled into bags, taken to a3/w2 melt tank for recovery.	Recycled	Barrels dropped off pallet while being moved.
3/11/92	92730207201	ARCO Alaska Inc.	y	DS 9 Well 34, Snow on pad	Other	15	Loader removing ice/snow. will reuse at ds maintenance tank.	Recycled	Gas kick from well, hit tank, caused 99% fresh water, 1% methanol to splash out.
4/5/92	92730109601	Western Geophysical	y	CPF 1, 1 x 15-20 on pad	Engine lube oil	15	Absorbents, shovels, bucket used. peak removed from site. initial report indicates probable incineration.	Incinerated	Final did not give exact method of disposal.
4/8/92	92730109901	ARCO Alaska Inc.	y	MCC, Lined (metal) dike	Diesel	15	Can't get to site until snow melts in breakup.	Unknown	Interim report.
4/30/92	92730912202	Alaska Petroleum Contractors	y	DS 2 Well 16, Snow/ice on pad	Methanol	15	Snow/ice sucked up, taken to methanol/water tank for recycle.	Recycled	Site glass froze, caused overflow.
8/4/95	95399921601	BPXA	ym	West Prudhoe Bay, L PAD SPINE ROAD,	Diesel	15	Took Report, Case Closed 01-00-00		Equipment Failure
2/15/96	96399904601	ARCO	y	East Prudhoe Bay, DS 3,	Crude	15	Took Report, Case Closed 01-00-00		Leak
6/13/96	96399916501	ARCO	y	Flow Station 1 (FS-1), ARCO Turbine Lubeoil	Engine Lube Oil	15	Field Visit/s, Case Closed 06-25-96		Leak
6/14/96	96399916601	BPXA	y	West Prudhoe Bay, B PAD,	Other	15	Took Report, Case Closed 01-00-00		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/14/96	96399916602	BPXA	y	West Prudhoe Bay, X-6,	Hydraulic Oil	15	Took Report, Case Closed 01-00-00		Seal Failure
6/16/96	96399916803	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, DS 2-15,	Diesel	15	Took Report, Case Closed 01-00-00		Overfill
6/26/96	96399917801	ALASKA PETROLEUM CONTRACTORS	ym	West Prudhoe Bay, 2B MANIFOLD BLDG,	Diesel	15	Phone Follow-up, Case Closed 06-27-96		Other
7/9/96	96399919101	ARCO	y	DS L2,	Hydraulic Oil	15	Took Report, Case Closed 01-00-00		Unknown
7/24/96	96399920603	BPXA	y	Well Pad H,	Hydraulic Oil	15	Took Report, Case Closed 01-00-00		Other
7/25/96	96399920703	ARCO	y	Flow Station 1 (FS-1),	Crude	15	Took Report, Case Closed 07-28-96		Valve Failure
11/10/96	96399931502	BPXA	y	DS 5 WELL L 10,	Other	15	Phone Follow-up, Case Closed 01-00-00		Valve Failure
11/10/96	96399931504	BPXA	y	DS 5, EOA,	Drilling Muds	15	Took Report, Case Closed 01-00-00		Human Error
2/12/97	97399904302	ARCO	y	East Prudhoe Bay, COTU,	Diesel	15	Took Report, Case Closed 01-00-00		Valve Failure
2/21/97	97399905201	ARCO	y	East Prudhoe Bay, FS 3,	Hydraulic Oil	15	Took Report, Case Closed 01-00-00		Line Failure
7/20/97	97399920101	BPXA	y	West North Slope, BP PAD S.,	Methyl Alcohol (Methanol)	15	Took Report, Case Closed 09-29-97		Other
11/6/97	97399931001	B.P.	ym	EAST NORTH SLOPE, B.P. ANNEX 1 (PEAK),	Hydraulic Oil	15	Took Report, Other 12-03-99		Line Failure
4/2/98	98399909202	B.P.	y	West North Slope, B.P. Well Pad E.,	Crude	15	Took Report, Case Closed 01-00-00		Valve Failure
4/5/98	98399909501	B.P.	y	EAST NORTH SLOPE, B.P. ARCO DS 13.,	Other	15	Took Report, Case Closed 01-00-00		Overfill
4/8/98	98399909807	ARCO	ym	EAST NORTH SLOPE,	Insecticide	15	Took Report, Other 12-03-99		Other
5/6/98	98399912602	B.P.	y	West North Slope, B.P. Well Pad Z.,	Diesel	15	Took Report, Case Closed 06-22-98		Leak
6/11/98	98399916201	ARCO	y	West North Slope, ARCO WEST BEACH PAD, POINT MAC.,	Crude	15	Phone Follow-up, Case Closed 12-03-99		Valve Failure
6/11/98	98399916202	ARCO	y	EAST NORTH SLOPE, WEST BEACH PAD.,	Crude	15	Took Report, Case Closed 01-00-00		Valve Failure
7/1/98	98399918202	BPXA	y	EAST NORTH SLOPE, COTU.,	Diesel	15	Took Report, Case Closed 01-00-00		Overfill
8/5/98	98399921701	BPXA	y	West Prudhoe Bay, CC2A PAD,	Seawater	15	Took Report, Case Closed 08-07-98		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/8/98	98399934201	NORCON	y	East Prudhoe Bay, DRILL SITE #14,	Hydraulic Oil	15	Took Report, Case Closed 12-08-98		Line Failure
12/18/98	98399935201	BPXA	y	Gathering Center 3 (GC-3),	Produced Water	15	Took Report, Case Closed 12-18-98		Valve Failure
3/3/99	99399906202	BPXA	y	Gathering Center (GC) 3,	Produced Water	15	Took Report, Case Closed 03-05-99		Valve Failure
3/7/99	99399906604	UNKNOWN	ym	West Prudhoe Bay, J PAD ARCO SIDE,	Diesel	15	Took Report, Case Closed 03-07-99		Overfill
7/10/99	99399919103	BPXA	y	BP, PBU, GC-3 PAD,	Produced Water	15	Took Report, Case Closed 07-15-99		Line Failure
8/18/99	99399923001	ARCO	y	East Prudhoe Bay, SPINE ROAD, GC1,	Hydraulic Oil	15	Took Report, Case Closed 08-18-99		Line Failure
9/29/99	99399927201	ARCO	y	ARCO, EOA, DS 16,	Corrosion Inhibitor	15	Took Report, Case Closed 10-11-99		Overfill
2/24/00	00399905501	BPXA	y	West Prudhoe Bay, Well Pad J,	Hydraulic Oil	15	Took Report, Case Closed 02-25-00		Sabotage/Vandalism
5/13/00	00399913401	ALASKA CLEAN SEAS/PHILLIPS AK	y	East Prudhoe Bay, WEST DOCK #2,	Hydraulic Oil	15	Took Report, Case Closed 05-15-00		Human Error
6/22/00	00399917403	DOWELL SCHLUMBERGER/PHILLIPS	ym	East Prudhoe Bay, DRILLSITE 6 WELL #15,	Crude	15	Took Report, Case Closed 06-22-00		Seal Failure
8/15/00	00399922801	BPXA	ym	East Prudhoe Bay, LPC LIQUID FLARE PIT,	Crude	15	Took Report, Case Closed 08-22-00		Valve Failure
1/13/01	01399901301	BPXA	y	West Prudhoe Bay, WESTERN OPERATING AREA, F-PAD,	Sulfuric Acid	15	Took Report, Case Closed 01-13-01		Cargo Not Secured
4/18/01	01399910801	BPXA	y	West Prudhoe Bay, Well Pad H,	Hydraulic Oil	15	Took Report, Case Closed 04-18-01		Line Failure
5/2/01	01399912201	PEAK OILFIELD SER/BPX ALASKA	ym	East Prudhoe Bay, SAG RIVER ON RIVER ICE,	Hydraulic Oil	15	Took Report, Case Closed 05-03-01		Line Failure
5/18/01	01399913801	NORCON/BP EXPLORATION ALASKA	y	West North Slope, F-PAD,	Hydraulic Oil	15	Took Report, Case Closed 05-20-01		Seal Failure
7/19/01	01399920003	BPXA	ym	EAST NORTH SLOPE MCC PARKING LOT,	Diesel	15	Took Report, Case Closed 07-19-01		Leak
7/21/01	01399920203	BPXA	ym	EAST NORTH SLOPE CENTRAL PROCESSING FACILITY,	Therminal	15	Phone Follow-up, Case Closed 07-23-01		Seal Failure
9/12/01	01399925501	BPXA	y	West Prudhoe Bay SPINE RD,	Diesel	15	Took Report, Final Report 09-13-01		Vehicle Leak, All

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/21/01	01399926401	ALASKA PETROLEUM CONTRACTORS	y	Well Pad F,	Crude	15	Took Report, Complaint/Report Received 09-21-01		Seal Failure
10/14/01	01399928701	BPXA	y	East Prudhoe Bay, L4,	Hydraulic Oil	15	Took Report, Final Report 10-19-01		Human Error
10/20/01	01399929301	BPXA	y	DRILL SITE L3,	Hydraulic Oil	15	Took Report, Final Report 10-20-01		Line Failure
4/21/02	02399911101	BPXA	y	West Prudhoe Bay, CC2A BALL MILL,	Crude	15	Took Report, Complaint/Report Received 08-09-02		Human Error
4/23/02	02399911301	BPXA	y	Drill Site 11,	Corrosion Inhibitor	15	Phone Follow-up, Final Report 06-12-02		Valve Failure
6/17/02	02399916801	BPXA	y	West Prudhoe Bay, CC2A PAD,	Crude	15	Phone Follow-up, Case Closed 09-27-02		Leak
6/17/02	02399916801	BPXA	y	West Prudhoe Bay, CC2A PAD,	Drag Reducing Agent	15	Phone Follow-up, Case Closed 09-27-02		Leak
8/22/02	02399923401	BPXA	y	Drill Site 2,	Crude	15	Phone Follow-up, Final Report 08-29-02		Equipment Failure
8/27/02	02399923901	NABORS DRILLING/BP EXPLORATION	y	Well Pad H,	Drilling Muds	15	Took Report, Final Report 09-11-02		Line Failure
1/24/03	03399902401	BPXA	y	Well Pad F,	Seawater	15	Phone Follow-up, Case Closed 01-29-03		Human Error
3/12/03	03399907101	BPXA	y	Well Pad C,	Methyl Alcohol (Methanol)	15	Took Report, Final Report 03-12-03		Equipment Failure
3/17/03	03399907601	BPXA	y	Well Pad B,	Crude	15	Took Report, Complaint/Report Received 03-17-03		Valve Failure
5/5/03	03399912502	BPXA	y	Well Pad C,	Crude	15	Took Report, Complaint/Report Received 05-06-03		Seal Failure
10/31/03	03399930401	BPXA	y	ARCO, J-PAD,	Hydraulic Oil	15	Took Report, Case Closed 11-03-03		Seal Failure
11/17/03	03399932101	BPXA	y	Well Pad G,	Crude	15	Phone Follow-up, Case Closed 11-19-03		Seal Failure
1/4/04	04399900401	BPXA	y	Drill Site 1 (DS-1),	Diesel	15	Took Report, Case Closed 01-14-04		Human Error
1/16/04	04399901603	BPXA	y	West Gas Injection,	Hydraulic Oil	15	Took Report, Case Closed 01-20-04		Line Failure
1/27/04	04399902701	BPXA	y	PAD 10,	Diesel	15	Field Visit/s, Case Closed 03-02-04		Overfill
2/5/04	04399903602	NANA OILFIELD SERVICES	y	Well Pad P,	Diesel	15	Took Report, Case Closed 02-10-04		Equipment Failure
3/11/04	04399907102	BPXA	y	Flow Station 3 (FS-3),	Corrosion Inhibitor	15	Took Report, Case Closed 03-15-04		Gauge/Site Glass Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/20/04	04399914101	BPXA	y	Well Pad A, Well Pad A Leaking Well A-34	Crude	15	Phone Follow-up, Final closure pending 07-24-07		Line Failure
5/24/04	04399914501	BPXA	y	Well Pad R,	Crude	15	Phone Follow-up, Case Closed 06-17-04		Unknown
7/24/04	04399920603	ASRC Energy Ser (formerly APC)	y	Well Pad L,	Hydrochloric Acid	15	Phone Follow-up, Case Closed 07-26-04		Overfill
11/5/04	04399931001	BPXA	y	Well Pad V, V-Pad MeOH/diesel	Seawater	15	Phone Follow-up, Technical Assistance 01-19-05		Unknown
1/23/05	05399902301	BPXA	y	East Prudhoe Bay, DRILLSITE 9,	Seawater	15	Took Report, Case Closed 01-25-05		Corrosion
4/10/05	05399910002	BPXA	y	Well Pad M,	Natural Gas	15	Took Report, Case Closed 04-14-05		External Factors
4/20/05	05399911003	BPXA	y	Well Pad Z,	Methyl Alcohol (Methanol)	15	Took Report, Case Closed 04-22-05		Seal Failure
5/22/05	05399914202	BPXA	y	Well Pad F,	Hydrochloric Acid	15	Took Report, Case Closed 05-24-05		Other
7/8/05	05399918901	BPXA	y	Lisburne Production Center (LPC),	Produced Water	15	Took Report, Case Closed 07-11-05		Line Failure
10/9/05	05399928202	BPXA	y	Drill Site 18,	Crude	15	Took Report, Case Closed 10-12-05		Containment Overflow
11/7/05	05399931101	BPXA	y	Prudhoe Bay Operations Center (PBOC),	Diesel	15	Took Report, Case Closed 11-17-05		Overfill
4/20/06	06399911001	BPXA	y	Seawater Treatment Plant (STP),	Other	15	Phone Follow-up, Case Closed 05-11-06		Line Failure
7/17/06	06399919801	BPXA	y	Gathering Center 1 (GC-1),	Hydraulic Oil	15	Took Report, Case Closed 07-24-06		Unknown
9/28/06	06399927101	BPXA	y	Gathering Center 2 (GC-2),	Methyl Alcohol (Methanol)	15	Phone Follow-up, Final Report 10-16-06		External Factors
10/22/06	06399929502	BPXA	y	W PAD,	Diesel	15	Took Report, Case Closed 10-30-06		Seal Failure
11/5/06	06399930902	BPXA	y	Gathering Center 2 (GC-2),	Diesel	15	Took Report, Case Closed 11-06-06		Equipment Failure
02/16/07	07399904701	BPXA	y	Sag River Delta ice road,	Diesel	15	Phone Follow-up, Case Closed 02-20-07		Human Error
02/26/07	07399905701	BPXA	y	Main Construction Camp (MCC),	Other	15	Took Report, Case Closed 03-03-07		Equipment Failure
03/08/07	07399906706	BPXA	y	Drill Site 3,	Seawater	15	Took Report, Case Closed 03-10-07		Human Error
04/13/07	07399910301	BPXA	y	Drill Site 9 (DS-9), DS- 9 Arctic Pack Spill	Other	15	Field Visit/s, Case Closed Transferred To CSITES 06-28-07		Crack

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
07/24/07	07399920501	Alaska West Express, Inc.	ym	Tank 410, Alaska West-BPXA 410 Tank	Methyl Alcohol (Methanol)	15	Took Report, Case Closed 07-27-07		Equipment Failure
8/9/88	88360122202	ARCO Alaska, Inc.	y	DS 11, Well 24, contained on pad	Diesel	14	Contaminated gravel was scooped up	Approved Landfill	
11/27/88	88360133203	ARCO Alaska, Inc.	y	DS 9, gravel pad near entry, contained on pad	Hydraulic oil	14	Loader used on snow	Recycled	hydraulic line failure on crane
11/6/89	89360131001	ARCO Alaska, Inc.	y	DS Maintenance Yard, Contained on pad.	Hydraulic oil	14	Fluid, gravel removed by vac truck, taken to nsb sowp.	Approved Landfill	
9/1/95	95399924401	BPXA	y	West Prudhoe Bay, CC2 BALL MILL,	Hydraulic Oil	14	Took Report, Case Closed 01-00-00		Equipment Failure
7/1/96	96399918306	ARCO	y	FS 2, DS 3,4,9,11,16 & 17,	Diesel	14	Took Report, Case Closed 01-00-00		Leak
7/2/96	96399918404	ARCO	y	POINT MCINTYRE & LISBURNE FACILITIES & DRILL SITES,	Diesel	14	Took Report, Case Closed 01-00-00		Leak
3/31/00	00399909101	ARCO ALASKA	ym	East Prudhoe Bay, DRILLSITE 3 PIPELINE ACCESS ROAD,	Hydraulic Oil	14	Took Report, Case Closed 04-03-00		Line Failure
1/20/03	03399902003	BPXA	y	GC 1,	Crude	14	Took Report, Case Closed 02-03-03		Line Failure
8/31/89	89360124302	ARCO Alaska, Inc.	y	COTU, Contained on pad	Crude	13	Absorbents used, super sucker on gravel. taken to nsb incinerator, and sowp for gravel.	Multiple	Pin hole leak in residual return pipeline in back of COTU facility.
12/31/89	89360936401	ARCO Alaska, Inc.	y	Seawater Treatment Plant, Contained on pad	Other	13	Sorbents used, gravel removed. sorbents to nsb incinerator, gravel to nsb sowp, snow melted, recycled.	Multiple	Leak in tanker trucker spilled gluderaldehyde, a biocide. Material spilled at STP and SIP and road between two locations.
3/26/90	90360108504	BPXA	y	GC 1 Skid 326, Contained on pad.	Crude	13	Loader, grader removed snow/gravel. sorbents used on pooled oil. snow to t pad sowp for recovery, sorbents to nsb incinerator.	Multiple	Vent overflowed on vac truck tank while offloading. Mixture 50-50 crude and produced water for volume of 25 gal.
7/9/90	90360119003	Four Star Terminals	y	COTU Fuel pumps, Contained on pad	Diesel	13	Gravel removed, bagged and sent to pad 3 disposal pit.	Approved Landfill	Driver pulled away with hose still in tank.
11/23/90	90360932701	Nemers Alaska	y	DS 12 Well 5, Contained on pad	Antifreeze	13	Absorbents used, gravel removed (l yd). disposal not given.	Not Given	Fan tore radiator.
7/8/91	91360918901	BPXA	y	GC2 skid 454, Gravel	Antifreeze	13	Loader used, gravel taken to arco pad 3.	Approved Landfill	MEG leaked from trace line in pipe rack.
4/20/92	92730111201	ARCO Alaska Inc.	y	FS 2, Snow on gravel	Crude	13	Shovels used. bagging for disposal which is pending.	Interim Containment	113 gal. prod. water, 13 gal. crude for total of 126 gal.
10/19/01	01399929202	BPXA	y	Well Pad S,	Diesel	13	Took Report, Case Closed 10-20-01		Human Error
12/8/02	02399934201	SCHLUMBERGER/BP EXPLORATION ALASKA	y	Well Pad C,	Methyl Alcohol (Methanol)	13	Took Report, Case Closed 12-16-02		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/9/06	06399928202	BPXA	y	Gathering Center 1 (GC-1),	Propylene Glycol	12.5	Phone Follow-up, Case Closed 10-12-06		Equipment Failure
11/9/83	83360131302	SOHIO	y	E Pad, Well 16, None, contained in snow.	Crude	12	Sorbents, bucket loader.	Not Given	Caused by tank pierced w/ forklift. Entered from old records 7/26/90.
7/30/86	86360121103	U.S. Fish and Wildlife Service	y	Prudhoe Bay,	Gasoline	12	None - storm blew it out into water	None-storm Blew It Out Into Water	
7/19/87	87360120002	ARCO Alaska, Inc.	y	Prudhoe Bay Operations Camp, Approximately 5' X 8' of pad	Hydraulic oil	12	Soaked up with sorbents/contaminants respread	Sorbents Incinerated/cnts. Respred	
6/25/88	88360117703	ARCO Alaska, Inc.	y	DS 7, Well 15, contained on pad	Water gelled	12	Absorbents	Incinerated	material-gelled seawater/ hose not properly attached to pump
11/4/88	88360130901	ARCO Alaska, Inc.	y	DS 1, Well 14, contained on pad	Glycol	12	Contaminated snow picked up with shovels	Approved Landfill	hose failure on tanker truck
12/30/88	88360136504	ARCO Alaska, Inc.	y	DS 3, Well 26, contained on pad	Diesel	12	Snow picked up with loader	Recycled	lower valve on Triton Pump fuel tank left open during refueling
1/19/89	89360101901	ARCO Alaska, Inc.	y	STP gravel pad, snow covered pad	Antifreeze	12	Picked up contaminated snow	Recycled	Radiator overflowed. Material 50/50 glycol/water mixture.
4/21/89	89360111105	BPXA	y	Well F-21, contained in snow on pad	Antifreeze	12	Snow scraped with shovels, taken to snow melter	Approved Landfill	Tank overtopped during flow line freeze protection work.
5/18/90	90360913801	BPXA	y	GC 2 Skid 12, Contained on pad	Antifreeze	12	Loader removed snow, taken to t pad for future recovery.	Recycled	Leak in heat trace found during line inspection.
10/10/90	90360228301	ARCO Alaska, Inc.	y	DS 9 Well 44, Ice and snow	Seawater	12	Loader removed material, took to pad 3.	Approved Landfill	Possibly responsible party is Conam or Nabors, but ARCO reported due to confusion. Conam or Nabors handled cleanup.
11/25/90	90360932901	Houston Contracting Co.	y	DS 14 Well 3, Contained on pad	Antifreeze	12	Snow removed, bagged, taken to pad 3 ow pit.	Approved Landfill	Crew unbolted test header; barrel overflowed.
1/1/91	91360100101	BPXA	y	F Pad Skid 52, Contained in snow under bldg	Hydraulic oil	12	Shovels removed snow, taken to a3w2 melt tank for recovery.	Recycled	
1/10/91	91360101001	Alaska Petroleum Contractors	y	Central Gas Facility, Gravel Pad	Hydraulic oil	12	Material removed, taken to pad 3.	Approved Landfill	Sight glass on loader broke.
2/23/91	91360905401	BPXA	y	GC 1 WSW, Contained on pad	Antifreeze	12	Snow/gravel removed with loader/shovels, taken to t pad pit.	Interim Containment	
2/26/91	91360105703	BPXA	y	S Pad Well 29, Snow around well house	Crude	12	Snow will be removed with loader, taken to t pad pit.	Approved Landfill	Fitting on top of well house leaked.
3/5/91	91360106401	BPXA	m	Unknown, No enviro damage	Engine lube oil	12	Snow removed, incinerated nsb.	Incinerated	
7/2/91	91360118302	BPXA	y	J Pad Well 2, Gravel pad	Diesel	12	Loader removed gravel, took to arco pad 3 pit.	Approved Landfill	Diesel spots remained after well work.
8/12/91	91730122403	BPXA	y	K Pad K7, Contained on pad	Diesel	12	Loader used, material taken to a3w2 for recovery.	Recycled	Spilled during wireline work.
8/14/91	91730122603	Camco Wireline	y	DS 12-3, Wellhouse	Crude	12	Absorbents used, incinerated.	Incinerated	Lubricator valve broke off bleed well inside wellhouse.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/18/92	92730107801	BPXA	y	F Pad Skid 57, Contained in snow on pad	Crude	12	Snow removed with loader, taken to t pad. sorbents to nsb incin.	Multiple	
10/9/95	95399928201	BPXA	y	West Prudhoe Bay, J PAD,	Produced Water	12	Took Report, Case Closed 01-00-00		Seal Failure
6/18/96	96399917001	BPXA	ym	West Prudhoe Bay, GC2 ACCESS ROAD,	Hydraulic Oil	12	Took Report, Case Closed 06-20-96		Line Failure
10/4/96	96399927802	ARCO	y	MCC/PBOC,	Diesel	12	Took Report, Case Closed 01-00-00		Puncture
3/12/97	97399907103	ARCO	y	East Prudhoe Bay, DS 16,	Hydraulic Oil	12	Took Report, Case Closed 01-00-00		Leak
11/6/97	97399931002	NORCON, INC.	y	East Prudhoe Bay, ARCO U-11,	Other	12	Took Report, Case Closed 11-14-97		Line Failure
12/14/98	98399934801	BPXA	y	West North Slope, Well Pad U,	Hydraulic Oil	12	Took Report, Case Closed 12-16-98		Line Failure
6/25/00	00399917701	PHILLIPS ALASKA	ym	East Prudhoe Bay, LPC LIQUID FLARE PIT,	Crude	12	Took Report, Case Closed 07-02-00		Leak
7/22/00	00399920402	PEAK OILFIELD SER/BPX	ym	East Prudhoe Bay, SPINE ROAD,	Hydraulic Oil	12	Took Report, Case Closed 07-23-00		Valve Failure
3/6/02	02399906501	Great Northwest Truck/BPX	y	Sag River Delta ice road,	Hydraulic Oil	12	Took Report, Interim Report 03-07-02		Seal Failure
3/14/02	02399907302	BPXA	ym	SPINE ROAD, DEADHORSE,	Hydraulic Oil	12	Took Report, Case Closed 03-15-02		Equipment Failure
12/8/02	02399934202	BPXA	y	GC 1,	Produced Water	12	Took Report, Case Closed 12-16-02		Line Failure
4/11/03	03399910101	BPXA	y	West North Slope, Well Pad W,	Hydraulic Oil	12	Took Report, Complaint/Report Received 04-11-03		Line Failure
10/10/03	03399928301	BPXA	y	VMS Pad,	Diesel	12	Took Report, Case Closed 10-13-03		Equipment Failure
9/17/04	04399926101	BPXA	y	Gathering Center 1 (GC-1),	Glycol, Other	12	Took Report, Case Closed 09-24-04		Valve Failure
1/5/06	06399900501	BPXA	y	Hot Water Plant,	Hydraulic Oil	12	Took Report, Case Closed 01-06-06		Equipment Failure
10/14/07	07399928702	BPXA	Y	Well Pad G, Well Pad G	Propylene Glycol	12	Took Report, Case Closed 10-22-07		Other
6/14/88	88360116601	ARCO Alaska, Inc.	y	DS 7, Reserve Pit, DS 7 Reserve Pit	Reserve pit fluids	11	Removed fluids & put back to reserve pit	Other	Cause:snow melted & res.pit fluid ended up in this containment
3/12/91	91360107101	BPXA	m	Various Survey locations, No enviro damage	Transmission oil	11	Snow removed, incinerated nsb.	Incinerated	3-12-91 2 gal 694945N. 1490634W. 3-13-91 6 gal 694945N. 1490634W. 3-15-91 2.5 gal 695317N. 1492703W.
3/12/96	96399907201	BPXA	y	Well Pad F,	Diesel	11	Took Report, Case Closed 03-14-96		Human Error
4/14/00	00399910501	ARCO ALASKA	y	East Prudhoe Bay, GRIND & INJECTION, DRILLSITE 13,	Hydraulic Oil	11	Took Report, Case Closed 04-15-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/7/05	05399912701	BPXA	y	Well Pad F,	Hydraulic Oil	11	Took Report, Case Closed 05-09-05		Line Failure
12/19/73	73360135301	ARCO Alaska, Inc.	y	Prudhoe Bay airstrip, Snow	Av fuel	10	Loader removed snow. no disposal given.	Not Given	Driver away from nozzle. Entered from old records 4-12-91.
1/9/81	81360100901	ARCO Alaska, Inc.	y	DS 4, Well 6, Floor of house and gravel pad	Crude	10	Used rags and pads, removed gravel. all material sent to nsb incinerator.	Incinerated	Entered in RBase 9-25-89 from old records. Stem on swab valve leaked inside wellhead shelter. Total less than 42 gal., 10 gal or less to pad. Final received but no date.
1/20/81	81360102002	Sohio	y	GC 2, Skid 11 West, Not Given.	Diesel	10	Not given.	Not Given	Entered 9-25-89 from old records.
1/28/81	81360102801	Sohio	y	DS 14, spine road, Not Given.	Hydraulic oil	10	Not given.	Not Given	Entered 9-25-89 from old records.
2/1/81	81360103202	Sohio	y	GC 2, Skid 25, PBF, Not given	Crude	10	Not given.	Not Given	Entered 9-26-89 from old records. Crude 5 gal., water 5 gal. Follow up 3/6/81.
2/2/81	81360103301	Sohio	y	GC 2, Skid 25, Prudhoe, Not given	Crude	10	Not given.	Not Given	Entered 9-26-89 from old records. Follow up 3-10-81.
2/2/81	81360103302	Sohio	y	GC 2, Skid 25, Prudhoe, Not given	Crude	10	Not given.	Not Given	Entered 9-26-89 from old records.
3/3/81	81360106201	Sohio	y	GC 1, Skid 25, PBF, Not given	Crude	10	Not given.	Not Given	Entered 9-27-89 from old records. Follow up 3/9/81 and 4/6/81.
3/6/81	81360106501	Sohio	y	G pad, Prudhoe, Not given.	Diesel	10	Not given.	Not Given	Entered 9-27-89 from old records. Follow up 4-1 and 4-6-81.
5/4/81	81360112404	ARCO Alaska, Inc.	y	E. Dock storage area, Prudhoe, Not given.	Emulsion breaker	10	Vac truck and absorbents. liquid injected, pads to nsb incinerator.	Multiple	Entered 10-26-89 from old records. Follow up date 8-13-81.
5/4/81	81360112405	ARCO Alaska, Inc.	y	E. Dock storage area, Prudhoe, Not given.	Other	10	Snow removed to pingut pit.	Approved Landfill	Entered 10-26-89 from old records. Follow up date 8-13-81. Product DN 600 oil spilled possibly due to failure of drum seam.
5/11/81	81360113101	Sohio	y	GC 1, Skid 25, Not given.	Crude	10	Not given.	Not Given	Entered 10-26-89 from old records. Follow up 6-4 and 7-28-81. Mixture crude and water.
5/15/81	81360113502	Sohio	y	B 6, B Pad, Prudhoe, Not given.	Diesel	10	Not given.	Not Given	Entered 10-26-89 from old records. Follow up 6-04-81.
5/16/81	81360113601	Sohio	y	Stores Oil Yard, Prudhoe, Not given.	Crude	10	Not given.	Not Given	Entered 10-26-89 from old records. Follow up 6-04 and 7-28-81.
6/3/81	81360115401	Sohio	y	Intersection Spine Rd. and B Pad access rd., Not given.	Other	10	Not given.	Not Given	Entered 10-26-89 from old records. Follow up 7-7 and 9-9-81. Product Volatile Amines Watcon 128.
7/16/81	81360119702	ARCO Alaska, Inc.	y	C Pad next to Well 6, Not given.	Diesel	10	Absorbent pads used. disposal not given.	Not Given	Entered 10-30-89 from old records. Valve under tiger tank leaked.
7/23/81	81360120402	Sohio	y	Rig 36 M Pad, Not given.	Diesel	10	Not given.	Not Given	Entered 10-30-89 from old records. Follow up 8-07-81.
9/6/81	81360124901	Sohio	y	R Pad, Prudhoe, Not given.	Diesel	10	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8 and 11-11-81.
12/11/81	81360134502	Sohio	y	Y Pad, Y7, Not given	Diesel	10	Not given	Not Given	Entered 2-21-90 from old records.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/19/82	82360110901	ARCO Alaska, Inc.	y	West Bay State #1-Prudhoe, Contained on gravel pad & snow.	Diesel	10	Absorbent pads and shovels.	Incineration/approved Landfill	Bull plug blew while pressure testing new pipe spool. Entered from old records 4-28-90.
4/25/82	82360111501	ARCO Alaska, Inc.	y	FS 1, Approx. 10' area of gravel pad, edge of mod. 1802.	Engine lube oil	10	Absorbent pads and shovels.	Incineration/approved Landfill	Entered from old records 4-28-90.
2/18/83	83360104901	SOHIO	y	X Pad, Module 54, No enviro damage	Hydraulic oil	10	Removed by front end loader. disposal x pad reserve.	Interim Containment	Spilled during service operations.Entered from old records 6/16/90.
2/21/83	83360105201	ARCO Alaska, Inc.	y	Central Compressor Plant, Unknown	Engine lube oil	10	P/u contaminated snow; disposal at nsb landfill.	Approved Landfill	Cause: Generator mist solidified. Entered from old records 6/20/90.
5/4/83	83360112402	SOHIO	y	Entrance to Y Pad, Contained in snow.	Hydraulic oil	10	Sorbents; snow picked up.	Not Given	Entered from old records 6/25/90.
5/19/83	83360113904	SOHIO Construction	m	AIC Camp/Shop site, Unknown, will follow up.	Engine lube oil	10	Removed contaminates & taken to nsb landfill.	Approved Landfill	Type: 5 gal. motor oil & 5 gal. hydraulic oil. Cause: operational equipment spills. Entered from old records 6/25/90.
5/31/83	83360115101	SOHIO	y	Big Lake Water Hole, Gravel inside pad dike.	Diesel	10	Contaminates removed & sorbents raken to nsb incinerator.	Incinerated	Cause: Refueling. Entered from old records 6/25/90.
6/2/83	83360115302	Kodiak Oilfield Haulers	m	Kodiak Pad, Deadhorse, Contained on pad.	Other	10	Contaminated gravel removed.	Not Given	Type: oily water. AK Offshore doing cleanup. Entered from old records 6/25/90.
6/2/83	83360115303	SOHIO	y	Permafrost Pad, Deadhorse, Contained on pad.	Crude	10	Vacuum; sorbents.	Not Given	Cause: thawed valve began leaking. Entered from old records 6/25/90.
9/18/83	83360926101	SOHIO	m	Old yard, None	Other	10	Shovelled/plastic bagged.	Unknown	Cause: Liquid spilled unto pad.Entered from old records 7/10/83.
11/20/83	83360132401	SOHIO	y	Skid 414, GC 3, Prudhoe, Unknown	Crude	10	Shoveled into bags.	Not Given	Cause: Line froze open. Entered from old records 7/27/90.
12/4/83	83360133802	ARCO Alaska, Inc.	y	Sea H2O Injection Plant, Gravel pad under day tank.	Diesel	10	Not given	Not Given	Leak from filling tanks. Entered from old records 7/30/90.
2/12/85	85360104301	ARCO Alaska, Inc.	y	Prudhoe,	Diesel	10	Con. snow & gravel scraped up	Not Given	
2/12/85	85360104302	Kodiak Oilfield Haulers	y	Pad 3 Arco injection,	Diesel	10	Scooped up con. snow	Approved Landfill	
3/12/85	85360106904	Texaco	m	Ice Road,	Transmission oil	10	Sorbent pads	Not Given	
6/21/85	85360117202	ARCO Alaska, Inc.	y	L-2 Lisburne Pad #2, Prudhoe,	Diesel	10	Soaked up with absorbent pads		
12/13/85	85360134701	ARCO Alaska, Inc.	y	DS 9 Prudhoe,	Crude	10	Soaked up with absorbent pads		
12/28/85	85360136202	Sohio Alaska Petroleum Company	y	GC-1,	Unknown	10	Contaminated snow & oil scraped up and bagged.		
2/24/86	86360905502	Sohio Alaska Petroleum Company	y	M-Pad,	Glycol	10	Scraped up contaminated materials		

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/6/86	86360906501	Sohio Alaska Petroleum Company	y	A Pad, Skid 54,	Glycol	10	Contaminated snow scraped up	Interim Containment	
5/4/86	86360112401	ARCO Alaska, Inc.	y	COTU, Prudhoe Bay,	Diesel	10	Vacuumed up	Recycled	
5/29/86	86360114902	Sohio Alaska Petroleum company	y	Y Pad, between wells 3 & 4,	Crude	10	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	
5/30/86	86360115002	Sohio Alaska Petroleum company	y	R-18,	Crude	10	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	
6/26/86	86360117702	Sohio Alaska Petroleum Company	y	M Pad,	Transmission oil	10	Vacuumed up	Interim Containment	
7/7/86	86360118801	ARCO Alaska, Inc.	y	Common Line 4-C at Flow 2,	Crude	10	Removed with vacuum truck	Recycled	
7/23/86	86360120301	ARCO Alaska, Inc.	y	FS 2,	Crude	10	Vacuumed pooled crude	Recycled	
7/23/86	86360120401	Sohio Alaska Petroleum Company	y	BOC Pad,	Crude	10	Soaked up w/sorbents-contaminated gravel scraped u	Incineration/approved Landfill	
8/24/86	86360123604	Nabors Alaska Drilling, Inc.	m	Prudhoe Bay - Spine Road,	Diesel	10	Soaked up with sorbents	Incinerated	
8/26/86	86360123801	Standard Alaska Production Com	y	GC-ll, Skid 20,	Crude and condensate	10	Scraped up contaminated gravel	Taken To F-pad For Recovery	
10/15/86	86360128802	Standard Alaska Production Com	y	GC-2, Skid 410,	Crude	10	Contaminated snow scraped up.	Incinerated	
12/18/86	86360935201	Standard Alaska Production Com	y	GC-1 Skid 404,	Glycol	10	Soaked up w/sorbents-contaminants scraped up	Interim Containment	
12/21/86	86360135502	ARCO Alaska, Inc.	y	CCP,	Hydraulic oil	10	Contaminants were scraped up	Incinerated	
1/5/87	87360900502	Standard Alaska Production Com	y	GC - 1, Area under overhead pipe near Skid 447 - J2	Glycol	10	Contaminants scraped up	Incinerated	
1/10/87	87360101002	ARCO Alaska, Inc.	y	DS 18,	Crude	10	Contaminants scraped up	Interim Containment	
5/3/87	87360112301	Standard Alaska Production Com	y	M-Pad, Skid 59,	Crude	10	Contaminants scraped up	Interim Containment	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/5/87	87360112502	Standard Alaska Production Com	y	GC-1, Skid 71,	Hydraulic oil	10	Contaminants scraped up	Interim Containment	
6/5/87	87360915601	ARCO Alaska, Inc.	m	Unknown,	Glycol	10	Soaked up with sorbents	Incinerated	
6/6/87	87360115701	ARCO Alaska, Inc.	y	DS 9,	Hydraulic oil	10	Soaked up with sorbents-used vacuum truck	Fluids Injected-sorbents Injected	
6/8/87	87360115905	ARCO Alaska, Inc.	y	DS 4, Well 17,	Crude/diesel	10	Contaminated gravel scraped up	Padspred	
6/8/87	87360115907	ARCO Alaska, Inc.	y	DS 16, Well 19,	Crude/diesel	10	Contaminated gravel scraped up	Padspred	
6/8/87	87360115909	ARCO Alaska, Inc.	y	DS 9, Well 28,	Crude/diesel	10	Contaminated gravel scraped up	Padspred	
6/8/87	87360116001	Brown and Root U.S.A., Inc.	y	Central Compression Plant, 10 square feet of pad	Hydraulic oil	10	Soaked up w/sorbents-contaminants scraped up	Incinerated	
7/22/87	87360120302	ARCO Alaska, Inc.	m	CGS Pad, Area around emergency generator	Diesel	10	Soaked up with sorbents	Incinerated	
7/26/87	87360120701	Standard Alaska Production Com	y	J-Pad, Tundra around leak in west pit back dike wall	Diesel/crude	10	Soaked up with sorbents	Incinerated	no evidence of contamination remains
8/4/87	87360121603	ARCO Alaska, Inc.	y	DS 4, Sump 1,	Diesel	10	Contaminants scraped up	Interim Containment	
8/6/87	87360121801	ARCO Alaska, Inc.	m	Geofoam pad, 2' X 5' stain on pad	Motor oil	10	Contaminated gravel scraped up	Padspred	
8/7/87	87360121903	ARCO Alaska, Inc.	m	GeoFoam Pad, 15' X 20' on pad	Motor oil	10	Contaminanted gravel scraped up	Padspred	
8/26/87	87360923801	Standard Alaska Production Com	y	C-21,	Borax/bentonite/water	10	Gel mix flushed into rp/contaminants scraped up	Mix Flushed Into Rp/conts. Scraped	Spill quantity was 100 pounds
9/7/87	87360125001	ARCO Alaska, Inc.	y	DS 4,	Crude/water	10	Soaked up with sorbents	Incinerated	
9/14/87	87360125702	ARCO Alaska, Inc.	y	DS 4, 10' X 10' area of pad	Crude and soapy	10	Spread contaminated soil into pad	Padspred	
9/30/87	87360127301	ARCO Alaska, Inc.	y	NGI pad - Prudhoe,	Diesel	10	Soaked up with sorbents	Incinerated	
10/7/87	87360128002	ARCO Alaska, Inc.	y	DS 9, Well 5,	Diesel	10	Soaked up with sorbents	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/31/87	87360930401	Standard Alaska Production Com	m	W. Mod 302,	Glycol	10	Soaked up w/sorbents-contaminants scraped up	Other	
11/4/87	87360130801	ARCO Alaska, Inc.	y	DS L5,	Crude	10	Contaminanted snow scraped up	Subsurface Injection	
11/13/87	87360131702	ARCO Alaska, Inc.	y	DS 4,	Diesel	10	Contaminants scooped up	Interim Containment	
11/13/87	87360131703	ARCO Alaska, Inc.	y	DS 7,	Crude	10	Soaked up with sorbents	Incinerated	
11/15/87	87360131901	Standard Alaska Production Com	y	C Pad, Area around Well House #7	Crude	10	Soaked up with sorbents	Incinerated	
11/16/87	87360132001	Standard Alaska Production Com	y	A-13, Area around the wellhead	Diesel	10	Contaminants scraped up	Incinerated	
11/19/87	87360132301	Standard Alaska Production Com	y	BOC Pad, Area around Field Services Shop	Transmission oil	10	Contaminants scraped up	Incinerated	
12/4/87	87360133801	Standard Alaska Production Com	y	D-3 Pad,	Diesel	10	Soaked up with sorbents	Incinerated	
12/4/87	87360133802	Standard Alaska Production Com	m	U-610,	Diesel	10	Soaked up with sorbents/contaminants scraped up	Approved Landfill	
12/14/87	87360134801	ARCO Alaska, Inc.	y	DS 14,	Hydraulic oil	10	Contaminated snow scraped up	Interim Containment	
12/25/87	87360135901	ARCO Alaska, Inc.	y	DS 2 Spine Road, 6 cubic yards of roadway	Salt/solid granular form	10	Contaminated snow scraped up	Intact Bags To Nsb/conts. To Pad 3	12 bags of salt found on roadway-1 broke open while picking up
1/8/88	88360100802	Standard Alaska Production Com	m	Fuel Pumps,	Gasoline	10	Contaminants scraped up	Incinerated	
1/9/88	88360100901	Standard Alaska Production Com	y	GC-3, Skid 460,	Turbine fuel	10	Contaminants scraped up	Approved Landfill	*excessive venting of normal condensates. Product turbine fuel.
1/28/88	88360902801	ARCO Alaska, Inc.	y	STP,	Glutaraldehyde	10	Contaminants scraped up	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/25/88	88360108501	ARCO Alaska, Inc.	y	DS 9, Well 18, Area around rig pool 102	Arctic pack	10	Contaminants scraped up	Approved Landfill	
4/3/88	88360109403	ARCO Alaska, Inc.	y	Point McIntyre, Well 3, Area of icy road traveled by empty truck	Dirty water	10	Contaminants scraped up	Interim Containment	Leaking empty cement truck.
4/6/88	88360109701	ARCO Alaska, Inc.	y	DS 18, Area around plugged annulus needle valve	Crude	10	Contaminants scraped up	Approved Landfill	Frozen needle valve.
5/22/88	88360114301	ARCO Alaska, Inc.	y	DS 3, Well 9,	Crude/diesel	10	Contaminants scraped up	Approved Landfill	
5/23/88	88360114402	ARCO Alaska, Inc.	y	FS 1 Slop oil tank,	Crude/water	10	Liquid vacuumed/contaminants scraped up	Liquid Recycled/conts To Pad 3	
5/31/88	88360115201	ARCO Alaska, Inc.	y	MCC - Bullrail,	Gasoline	10	Contaminants scraped up	Recycled	
6/11/88	88360116303	ARCO Alaska, Inc.	y	DS 7, Well 10, DS 7, Well 10	Diesel	10	Contaminants scraped into pad		
6/21/88	88360117303	ARCO Alaska, Inc.	y	DS 3, 9' x 9' on pad	Diesel	10	Graded into surface of pad	Padspred	Oiltype: diesel/crude mixture
6/26/88	88360117801	ARCO Alaska, Inc.	y	DS 3, Well 11, contained on pad	Diesel	10	Absorbents/loader to pick up contaminated gravel	Incineration/approved Landfill	
7/12/88	88360119401	ARCO Alaska, Inc.	y	DS 14, Well 3, DS 14, Well 3	Diesel	10	Picked up gravel	Approved Landfill	
7/15/88	88360119706	ARCO Alaska, Inc.	y	DS 7, Well 8, contained on pad	Diesel	10	Picked up gravel with loader/ absorbents	Multiple/see Comments	
7/18/88	88360120001	HB and R	m	Spine Road, gravel on Spine Road	Diesel	10	Picked up gravel and replaced with new gravel	Approved Landfill	
7/18/88	88360120003	ARCO Alaska, Inc.	y	Spine Road near MCC,	Diesel	10	Used dozer to pick up	Unknown	
8/9/88	88360122201	ARCO Alaska, Inc.	y	DS 3, Methanol Pit, contained on pad	Methanol	10	Contaminated gravel shoveled up & put in drum		
9/26/88	88360127001	ARCO Alaska, Inc.	y	COTU, contained on pad	Residual oil	10	Loader removed material and contaminated snow	Approved Landfill	Vac truck hose disconnected.
9/26/88	88360127002	ARCO Alaska, Inc.	y	DS 7, Well 4, contained on pad	Diesel	10	Absorbents for material, shovels for gravel	Incineration/approved Landfill	
10/9/88	88360128301	SAPC Endicott	m	A Pad Well A-35, contained on pad and top of snow	Crude	10	Droplets skimmed off snow, staged for pickup	Approved Landfill	flowline froze, ruptured. Wind carried crude
10/15/88	88360128903	SAPC Endicott	m	A-28,29,20,5,6,9,11, contained on pad	Hydraulic oil	10	Contaminates will be removed	Incineration/approved Landfill	messy conditions around above areas from well work and traffic
10/15/88	88360128906	SAPC Endicott	m	A-11,28 & 1-29,20,5,6, & 9, contained on pads	Hydraulic oil	10	Snow removed with shovels	Approved Landfill	messy conditions around above well houses due to well work and traffic
10/17/88	88360129102	ARCO Alaska, Inc.	y	LPC, contained on pad	Hydraulic oil	10	Shovels used on snow and gravel		Vac. truck.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/20/88	88360129404	ARCO Alaska, Inc.	y	DS 12, Well 1, contained on pad	Hydraulic oil	10	Absorbents on fluids, snow with loader	Incineration/approved Landfill	hydraulic hose cracked
10/29/88	88360130303	ARCO Alaska, Inc.	y	FS 2, Slop Oil Tank, contained on pad	Crude	10	Grader and loader used for snow & material	Approved Landfill	mixture 90% crude, 10% produced water
11/12/88	88360131703	ARCO Alaska, Inc.	y	J Pad, contained on pad	Methanol	10	Loader for material and contaminated snow	Recycled	
11/22/88	88360132702	ARCO Alaska, Inc.	y	DS 5, Well 10, contained on pad	Methanol	10	Handshovels used to pick up snow and material	Recycled	valve bumped open during rigging up for freeze protection
12/4/88	88360133901	ARCO Alaska, Inc.	y	DS 4, Well 10, contained on pad	Seawater/ borax	10	Handshovels to pick up material/snow. bagged.	Incinerated	valve froze while transferring material. Discharged out of pump
12/5/88	88360134004	ARCO Alaska, Inc.	y	DS 4, Well 10, contained on pad	Seawater/ borax	10	Hand shovels to pick up snow/material	Incinerated	frozen valve leaked when thawed
12/16/88	88360135102	ARCO Alaska, Inc.	m	By Pass Road, contained on pad	Methanol	10	Snow picked up with shovels	Multiple/see Disposal	
12/17/88	88360135204	ARCO Alaska, Inc.	y	DS 5, Well 10, contained on pad	Brine	10	Snow picked up by loader	Approved Landfill	Released during operation.
1/7/89	89360100701	ARCO Alaska, Inc.	m	Telecommunications Center, contained on snow covered gravel pad	Diesel	10	Mixed with snow and hauled to snow melter	Recycled	crack in fuel tank
1/8/89	89360100805	SAPC Endicott	m	800 Fuel Pumps, contained on pad	Diesel	10	1 gg used to scrape up contaminated snow/ice	Recycled	accumulation of small amounts of diesel/gas during equip/auto fueling
1/15/89	89360101501	ARCO Alaska, Inc.	y	DS 1, Well 21, on snow covered gravel pad	Hydraulic oil	10	Loader scraped up snow/absorbent pads used	Incinerated	while pumping wellhead safety panel, hydraulic hose failed
1/31/89	89360103103	SAPC Endicott	m	Diesel storage tank, contained on pad	Diesel	10	Absorbent recovery and scalped snow	Subsurface Injection	while unloading fuel, pump leaked
2/1/89	89360103202	ARCO Alaska, Inc.	y	FS 3, near module 4935, 6'x8' on SE area of snow packed gravel pad	Hydraulic oil	10	Melted	Recycled	hose ruptured on a demobilized manlift
2/3/89	89360103403	SAPC Endicott	m	F 13 & C 29, contained on pad	Antifreeze	10	Contaminate removed by loader and grader	Recycled	Failure to use drip pans, absorbents. Mix hyd 20%,diesel 30,glycol 50
2/4/89	89360103508	SAPC Endicott	m	Well E-21, contained on pad	Hydraulic oil	10	Snow and contaminates removed with loaders. taken to nsb ow pit.	Approved Landfill	Cold weather caused overpressuring of the hydraulic accumulator filter
2/10/89	89360104103	ARCO Alaska, Inc.	y	COTU Terminal, contained on snow	Diesel	10	Absorbents used to soak up fluid	Incinerated	fuel spilled while refueling
3/1/89	89360105305	ARCO Alaska, Inc.	y	DS 16 and DS 17, contained on pad	Hydraulic	10	Loader scraped up contaminated snow. snow taken to nsb ow pit.	Approved Landfill	
3/14/89	89360107303	ARCO Alaska, Inc.	y	CCP Module 4903, contained on pad	Diesel	10	Removed by loader, taken to nsb landfill	Approved Landfill	Material leaked from faulty pump seal on tanker truck
3/19/89	89360107801	ARCO Alaska, Inc.	y	DS L3, contained on pad	Methanol	10	Material and snow shoveled into too bags, disposed of at pad 3.	Approved Landfill	Mixture 60% methanol, 40% water spilled when hydrotest hose fitting failed.
3/19/89	89360107803	ARCO Alaska, Inc.	y	DS L4, contained on pad	Hydraulic oil	10	Material and snow shoveled into plastic bags which were disposed of at nsb landfill.	Approved Landfill	Air compressor seal blew, released material with air.
3/20/89	89360107905	ARCO Alaska, Inc.	y	FS 1, Hard packed snow on gravel pad	Crude	10	Loader scraped up. snow taken to melter. recycled at fs 1.	Recycled	vacuum truck vent left open, crude spilled out.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/6/89	89360109602	ARCO Alaska, Inc.	y	DS 18, Well 23, Contained on snow on pad	Crude	10	Loader and hand shovels used to remove contaminated snow. melted at pad 14, recycled at fs 1.	Recycled	500 bbl flowback tank overfilled causing tank to discharge a fine mist onto pad.
4/21/89	89360111102	BPXA	y	GC1, contained on snow on pad	Crude	10	Snow scraped up, taken to snow melter.	Not Given	no details
4/28/89	89360111802	BPXA	y	GC-2, Skid 6, contained on pad	Crude	10	Loader used to remove material, melted and returned to dirty water tank at facility	Recycled	Mixture 10 % crude, 90% water. Leaky valve caused loss of fluid out blowdown line.
4/28/89	89360111803	BPXA	y	Q-Pad, contained on pad	Diesel	10	Loader used to remove material, melted for recovery.	Recycled	Fuel line inside equipment broke during move causing fuel to escape inside unit and overflow. Most of contaminated removed right away with loader, remaining material also removed by loader. Some of fuel travelled under deep snow cover on edge of pad. M
5/7/89	89360112701	ARCO Alaska, Inc.	y	DS 2, Well 24, contained on pad atop snow	Other	10	Loader scraped up snow, disposed of at pad 3	Approved Landfill	Product type bentonite gel and fresh water, 15#/bbl bentonite.
5/10/89	89360113002	ARCO Alaska, Inc.	y	FS 1, contained on pad	Other	10	Absorbents and vac truck used. absorbents to nsb incinerator and material and snow to pad 3.	Multiple	Mixture 95% water and 5% hydrocarbon sludge. During vessel clean out, valve opened before vac truck hose connected.
5/11/89	89360113102	ARCO Alaska, Inc.	y	FS 1, contained on pad	Other	10	Absorbents used and vac truck. absorbents to nsb incinerator, snow to pad 3	Multiple	Mixture 95% water and 5% hydrocarbon sludge spilled during vesselclean out when vac truck hose disconnected from valve port.
5/21/89	89360114104	ARCO Alaska, Inc.	y	ARCO Heavy Equip Shop at PBOC, west bull rail, contained on pad	Diesel	10	Loader scraped up snow, melted, recycled at fs 1	Recycled	Cracked weld allowed fuel to leak from tanker truck.
5/26/89	89360114603	ARCO Alaska, Inc.	y	DS 9 and DS 3 intersection, spine road, contained on snow	Hydraulic oil	10	Loader used to scrape up snow, melted and taken to fs 1 to recycle.	Recycled	Mixture diesel/hydraulic spilled when hose ruptured.
5/26/89	89360114604	ARCO Alaska, Inc.	y	DS 11 between Wells 15 & 24, contained on gravel	Other	10	Gravel picked up and placed into drums. material to be transported to temp. storage at pad 3 when storage constructed.	Interim Containment	Final report lists product as Oily Waste. Suspect leak from rig left on storage pad for long time.
5/27/89	89360114702	ARCO Alaska, Inc.	y	DS 1, Well 2, contained on pad	Gelled water	10	Loader used to remove material and gravel. taken to pad 3.	Approved Landfill	Mixture gel and water spilled when flapper valve in closed position caused material to vent out.
6/9/89	89360116002	NANA	m	Arctic Utilities--Prudhoe Bay, Gravel pad and pooled water.	Antifreeze	10	Water pumped out, absorbent pads used. fluid sent to fairbanks to recycle.	Recycled	Air pocket in radiator forced liquid out.
6/13/89	89360116402	BPXA	y	M Pad, contained on pad	Diesel	10	Loader used to remove gravel. taken to a3w2 tank	Interim Containment	
6/14/89	89360116504	BPXA	y/m	A Pad, Well 3, contained on pad	Diesel	10	Absorbents used, gravel removed by loader. sorbents to incinerator, gravel to a3w2	Multiple	Tiger tank overfilled.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/23/89	89360117407	BPXA	y/m	B 13, contained on pad	Diesel	10	Removed gravel, put in lined pit for future disposal at arco.	Interim Containment	Diesel/water/crude mixture, no percentages given. Cause of spill unknown, could be overrun barrels, or thermal expansion.
6/24/89	89360117503	BPXA	y	N 6, contained on pad	Hydraulic oil	10	Sorbents laid down on gravel, gravel to be removed when equipment is removed. sorbents to nsb incin., gravel to santa fe pad tank.	Multiple	Possible plug in hydraulic line.
7/7/89	89360118802	VECO	m	Track 57, Prudhoe Arctic Structures Pad, contained on pad	Diesel	10	Not going on at this time.	Unknown	While moving tanks behind ATCO units, diesel spilled. Mr. Helmricks notified VECO and DEC to report ring of diesel left behind.
7/7/89	89360118804	ARCO Alaska, Inc.	y	FS 2, contained on pad	Crude	10	Vac truck removed liquid, gravel removed. taken to nsb sowp	Approved Landfill	Mixture 90% water, 10% crude released during shut down while conducting tie in. Material seeped out of well.
7/19/89	89360120003	ARCO Alaska, Inc.	y	FS 1, Slop Oil tank, gravel	Crude	10	Absorbents used, taken to nsb incinerator. gravel removed by loader, taken to nsb sowp	Multiple	Material leaked from hose which wasn't properly drained.
8/3/89	89360121501	BPXA	y	T Pad Access Road, 10 X 15 area of tundra	Diesel	10	Diesel burned off tundra with propane torches.	Incinerated	Fertilizer will be applied to area and it will be seeded. No water affected.
8/16/89	89360122802	BPXA	y	F3, contained on pad	Diesel	10	Sorbents used, taken to nsb incinerator.	Incinerated	Needle valve left open during pressure testing.
8/18/89	89360123001	BPXA	y	BOC Fuel Pumps, contained on pad	Diesel	10	Absorbents used, gravel removed. sorbents to nsb incinerator and gravel to nsb pit.	Multiple	Faulty nozzle shut off on BOC fuel pumps.
8/19/89	89360123104	BPXA	y	VMS, contained on pad	Diesel	10	Gravel removed, taken to a3w2 for future removal to nsb pit.	Approved Landfill	Leaky fuel tank on piece of equipment.
8/19/89	89360123105	BPXA	y	VMS, contained on pad	Diesel	10	Contaminated gravel removed, taken to a3w2 for future removal to nsb pit.	Interim Containment	Leaky fuel tank on piece of equipment.
8/29/89	89360124102	BPXA	y	F 13, contained on pad	Crude	10	Gravel removed, taken to nsb owp	Approved Landfill	Safety valve kicked out causing release of crude.
9/19/89	89360126202	BPXA	m	WSW Skid 311, Contained on pad	Antifreeze	10	Gravel removed, taken to nsb ow pad	Approved Landfill	Liquid seal in seawater tank overfill line evaporated, pressure fluctuations in tank resulted in spillage.
9/23/89	89360126601	ARCO Alaska, Inc.	y	DS 14, Well 32, Contained on pad.	Diesel	10	Gravel removed, taken to nsb sowp.	Approved Landfill	Leaking fuel tank at the triplex pump.
9/23/89	89360126605	ARCO Alaska, Inc.	y	DS 4, Contained on pad	Diesel	10	Absorbents used, loader removed gravel. sorbents to nsb incinerator, gravel to nsb sowp.	Multiple	Leaking connection on truck.
10/19/89	89360129202	ARCO Alaska, Inc.	m	Central Guard Shed, Contained on roadway	Diesel	10	Contaminated gravel removed, taken to nsb sowp.	Approved Landfill	Diesel splashed out of vent when tank stopped at guard shed.
10/23/89	89360129604	BPXA	y	Well A 10, Contained on pad	Diesel	10	Contaminated gravel scraped up, taken to nsb owp.	Approved Landfill	O-Ring failure.
10/24/89	89360129704	ARCO Alaska, Inc.	y	FS 2 module 4935, Contained on pad.	Crude	10	Loader removed material, contaminated gravel and snow. taken to nsb sowp.	Approved Landfill	Produced water with trace of crude and sand.
11/6/89	89360131004	ARCO Alaska, Inc.	y	DS 5 Well 10, Contained on pad.	Diesel	10	Absorbents, super sucker used to remove fluid, grave. sorbents to nsb incinerator, gravel to nsb sowp.	Incineration/approved Landfill	While transferring diesel into generator, valve opened and fluid discharged onto pad.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/7/89	89360131101	ARCO Alaska, Inc.	y	DS 6, Well 7, Contained on pad.	Crude	10	Loader picked up gravel, absorbents used. sorbents to nsb incinerator, gravel to nsb sowp.	Incineration/approved Landfill	Foaming action in crude released some material out vent.
11/11/89	89360131501	ARCO Alaska, Inc.	y	DS 14 Well 1, Contained on pad	Crude	10	Loader, super sucker used, taken to nsb sowp.	Approved Landfill	Vent discharge due to gas kick from return line.
11/13/89	89360931701	ARCO Alaska, Inc.	y	DS 11 Well 27, Contained on pad	Corrosion inhibitor	10	Gravel removed, taken to nsb sowp.	Approved Landfill	Nalco 3554 corrosion inhibitor spilled when check valve failed to hold and gas vented chemical.
12/3/89	89360933703	Alaska West Express	y	Pad 10, ARCO, Not given.	Methanol	10	Absorbents used, snow removed. arco bagged material, incinerated.	Incinerated	
12/14/89	89360134801	ARCO Alaska, Inc.	y	ARCO Electrical Shop Pad, Contained on pad	Hydraulic oil	10	Snow/gravel removed, taken to nsb sowp.	Approved Landfill	
12/14/89	89360934801	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Antifreeze	10	No method given. taken to pad 3 for injection.	Subsurface Injection	Heat line to tank vent failed spilling UCAR 17 glycol and water mix.
12/17/89	89360135105	ARCO Alaska, Inc.	y	COTU, Contained on pad	Diesel	10	Snow/gravel removed, absorbents used. pads to burnable dumpster, snow/gravel to nsb sowp.	Incineration/approved Landfill	Fuel nozzle stuck open.
1/6/90	90360100602	ARCO Alaska, Inc.	y	DS 16 Well 1, Gravel pad	Crude	10	Absorbents, handshovels used, sorbents to nsb incinerator, snow/material melted, recycled at fs 1.	Multiple	Mixture 50% diesel/50% crude foamed out while bleeding down annulus into slop tank.
1/6/90	90360900601	ARCO Alaska, Inc.	y	Central Gas Facility, Gravel pad	Methanol	10	Loader removed material, gravel, taken to nsb sowp.	Approved Landfill	Level alarm failed, closing inlet valve, causing tanker seal to rupture.
1/10/90	90360101002	BPXA	y	GC 2 Skid 7, Contained on pad	Hydraulic oil	10	Material shoveled up, bagged. ice/snow to a3w2 warehouse indoor melter.	Interim Containment	Fluid filter on manlift frozen causing overflow through vent.
1/10/90	90360201001	ARCO Alaska, Inc.	y	SIP, Contained on pad	Seawater	10	Frozen seawater removed. taken to pad 3, melted, injected.	Subsurface Injection	Hose on transport not completely drained before disconnected.
1/21/90	90360102107	BPXA	y	D Pad, Well 7, Contained on pad	Hydraulic oil	10	Absorbents used, loader removed contaminants. sorbents to nsb incinerator, contaminants to a3w2 for recovery.	Multiple	Blown line seal on crane.
1/30/90	90360103003	BPXA	m	ARCO Fuel Dock, Contained on pad	Diesel	10	Sorbents used, placed in nsb dumpster, snow shoveled, placed in a3w2 melt tank for recovery into gc ullage.	Recycled	Vent hatches left closed while loading, allowing diesel to spill onto pad during fluid transfer.
1/31/90	90360103102	ARCO Alaska, Inc.	y	FS 3, Ice and snow covered tundra	Hydraulic oil	10	Absorbents used, loader and hand shovels. absorbents to nsb incinerator.	Incinerated	While placing VSM's in tundra, a permitted activity, hydraulic seal ruptured on outrigger.
2/6/90	90360903702	ARCO Alaska, Inc.	y	Central Gas Facility, Contained on pad	Antifreeze	10	Frozen material removed, melted and injected at pad 3.	Subsurface Injection	Vac truck leaking hose. Mixture 40% glycol, 60% water.
2/15/90	90360104603	ARCO Alaska, Inc.	y	FS 1, Contained on snow covered pad	Crude	10	Loader and rig removed contaminated material. taken to snow melter, then recycled at fs 1.	Recycled	Hose clamp broke on sight glass on side of vac truck.
2/16/90	90360904701	Canadian Fracmaster	y	DS L4 Well 31, 2x3 ft on pad	Methanol	10	Fluid captured in 6 in. snow pack on pad, removed and placed in drum to melt. will be disposed of at pad 3.	Subsurface Injection	Faulty bleed down valve on pump.
2/24/90	90360105501	Four Star Terminals	m	North Slope (only location given), Not given	Diesel	10	Absorbents used, snow scooped up. disposal not given.	Not Given	While filling truck, hose slipped out.
2/25/90	90360105601	BPXA	y	PBU BP90-3, Snow and ice	Hydraulic oil	10	Snow/ice scraped up with shovels, taken to incinerator.	Incinerated	Hose failed on vibrator unit.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/14/90	90360107302	BPXA	y	B Pad Well 23, Contained on snow on pad	Crude	10	Snow removed by loader, taken to t pad for recovery.	Recycled	Well pressure change caused oil to vent.
3/18/90	90360907702	Conoco	y	L Pad, Not given	Antifreeze	10	Said cleaned up, method not given. taken in drums to temp storage.	Interim Containment	Spill discovered. Believe occurred between 3-18- and 3-25-90.
3/24/90	90360908302	ARCO Alaska, Inc.	y	FS 3, Contained on pad	Corrosion inhibitor	10	Snow removed, 1/2 yd gravel removed. snow will be reused, gravel to pad 3 sowp	Multiple	During transfer, WT 676 corossion inhibitor overflowed tank.
3/31/90	90360209002	ARCO Alaska, Inc.	y	DS Maintenance Pad, Gravel pad	Seawater	10	Loader, shovels removed material, taken to pad 3 disposal pit.	Subsurface Injection	Material leaked from damaged fitting on tanker.
4/2/90	90360909201	ARCO Alaska, Inc.	y	Pad 10 meth tank near S.I.P., Gravel and snow	Methanol	10	Absorbents used, hand shovels removed gravel. placed in overpack, taken to hw area will ship to net site, fluids recycled.	Multiple	Connection leaked while loading tanker.
4/7/90	90360209701	VECO	y	OW Injection Facility, Gravel pad	Produced water	10	Absorbents used, put into dumpster.	Approved Landfill	Removing hose while pressure on it.
4/14/90	90360910402	ARCO Alaska, Inc.	y	DS 3 Well 13, Contained on pad	Antifreeze	10	Absorbents used, hand shovels removed snow/material. absorbents to nsb incinerator, snow/gravel to pad 3 sowp.	Multiple	75% glycol, 25% gear oil spilled from overflow tube when tube moved.
4/25/90	90360911501	BPXA	y	X Pad Well 19, Snow on pad	Methanol	10	Loader removed snow, taken to a3w2 for melting and recovery.	Recycled	Fitting on HB & R unit split.
4/29/90	90360111901	BPXA	y	Pad G Well 19, Contained on pad	Hydraulic oil	10	Absorbents used, snow removed by loader, taken to melter at a3w2, sorbents incinerated.	Multiple	
5/6/90	90360912602	H.C. Price	y	West Side N.G.I. ARCO Facilities, Snow in sump area	Antifreeze	10	Glycol, snow shoveled into bags, put in nsb burnable dumpster.	Incinerated	
5/13/90	90360113303	ARCO Alaska, Inc.	y	FS 3, Gravel	Diesel	10	Loader, truck used. material taken to pad 3 sowp.	Approved Landfill	Feed line problem while filling tanks.
5/19/90	90360113903	ARCO Alaska, Inc.	y	DS 5, Gravel pad	Crude	10	Gravel removed, taken to pad 3.	Approved Landfill	Mixture 70% crude, 30% water spilled when back pressure control valve failed to open and relief valve vented.
5/19/90	90360113904	BPXA	y	CC2 Pad, SW corner, Contained on pad	Hydraulic oil	10	Loader removed snow, sorbents on pooled fluid. snow to a3w2 melt tank for recovery.	Recycled	Leaked while area being cleaned.
5/22/90	90360114202	ARCO Alaska, Inc.	y	MCC Fuel Depot, Contained on pad	Diesel	10	Absorbents, loader used. absorbents to nsb incin., gravel to pad 3 temp pit.	Approved Landfill	
5/26/90	90360114602	BPXA	y	Cold Storage VMS, Contained on pad	Hydraulic oil	10	Absorbents used, gravel removed. sorbents to nsb incin., gravel to a3w2 to be rinsed.	Multiple	
5/27/90	90360114701	BPXA	y	Pad B Well 9, Contained on pad	Hydraulic oil	10	Loader, shovels used, absorbent. sorbents to nsb incin., gravel to a3w2 to be rinsed.	Multiple	Return line ruptured when cooler plugged up.
5/27/90	90360114707	ARCO Alaska, Inc.	y	SIP, Contained on pad	Engine lube oil	10	Gravel removed, taken to pad 3 sowp.	Approved Landfill	Seal oil (lube oil rich gas) vented, condensed and fell to pad.
5/28/90	90360114803	ARCO Alaska, Inc.	y	COTU, Contained on pad	Diesel	10	Gravel removed, taken to pad 3.	Approved Landfill	
5/30/90	90360115001	BPXA	y	S Pad, Contained on pad	Diesel	10	Absorbents used, all material removed to depth of 4 in. bagged for disposal.	Interim Containment	Discovered by workers.
6/3/90	90360115402	ARCO Alaska, Inc.	y	DS L3 Well 1, Contained on pad	Crude	10	Supersucker removed gravel, taken to pad 3.	Approved Landfill	Mechanical failure on pump.
6/10/90	90360116102	BPXA	y	J Pad Skid 52, Contained on pad	Crude	10	Gravel removed by shovels, taken to a3w2 rinse tank.	Interim Containment	Loose grease fitting on valve.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/23/90	90360917401	ARCO Alaska, Inc.	y	Pad 10, Contained on pad	Methanol	10	Absorbents used, shovels removed gravel. put in drums, stored at haz waste c pad.	Interim Containment	Drained when hose disconnected.
6/26/90	90360117706	BPXA	y	GC 2, Contained on pad	Crude	10	Sorbents removed 50%, remainder in gravel removed. sorbents to nsb incin., gravel to arco owp.	Incineration/approved Landfill	
7/3/90	90360118402	Conoco	y	L Pad, Gravel pad	Hydraulic oil	10	Loaders, shovels removed gravel. taken to e pad temp storage berm.	Interim Containment	
7/8/90	90360118901	Peak Oilfield Services	y	DS 14, Gravel pad	Crude	10	Absorbents used, taken to nsb burnable dumpster.	Incinerated	Mixture 50% fresh water, 5% crude, 10% methanol, 35% water gel spilled when scrubber pot on vac truck opened.
7/26/90	90360120702	ARCO Alaska, Inc.	y	DS 4 Well 10, gravel pad	Transmission oil	10	Contaminated gravel removed, taken to pad 3 disposal.	Approved Landfill	
7/28/90	90360120904	BPXA	m	Pad (no number given), Area not given	Waste crankcase	10	Scalped surface, replaced gravel. contaminated gravel into bucket.	Interim Containment	Drum fell from forklift.
8/1/90	90360921302	ARCO Alaska, Inc.	y	LPC, Contained on pad	Antifreeze	10	Loader removed gravel, took to pad 3 sw pit.	Approved Landfill	Hose banding connection failed.
8/11/90	90360122302	Conoco	y	L Tank Reserve Pit, 100 sq ft slick in reserve pit	Diesel	10	Absorbents used. pads bagged and put in temp storage berm.	Interim Containment	
8/20/90	90360123203	B.J. Services	y	Ds 5, Gravel	Av fuel	10	Absorbents used, gravel removed, taken to arco pad 3.	Approved Landfill	
8/20/90	90360223201	B.J. Services	y	DS 11, 5 x 5	Gelled water	10	Vac truck used, injected at pad 3.	Subsurface Injection	Gelled fresh water spilled when blender tub overflowed.
8/21/90	90360123301	BPXA	y	Pad D Relief Pit, Contained on pad	Hydraulic oil	10	Loader removed material and gravel. taken to arco pad 3.	Approved Landfill	
8/23/90	90360223501	ARCO Alaska, Inc.	y	Between FS 1 and SIP, 200 yds gravel pad	Other	10	Gravel bladed into pad.	Other	Sewage spread when valve on vac truck not completely closed.
9/4/90	90360224701	ARCO Alaska, Inc.	m	100 Percent Pad at Deadhorse, Contained on pad	Other	10	Vac truck used, took to ww treatment plant.	Approved Landfill	Wastewater spilled when truck overfilled.
9/12/90	90360125504	ARCO Alaska, Inc.	y	South Hangar DS Maintenance yard, Contained on pad	Hydraulic oil	10	Absorbents, shovels used. gravel to pad 3, pads incinerated nsb.	Incineration/approved Landfill	Reservoir overfilled.
9/15/90	90360125801	BPXA	y	GC 1 Skid 454, Contained on pad	Crude	10	Gravel removed, some sorbents used. sorbents to nsb incin., gravel to pad 3 sw pit.	Incineration/approved Landfill	While removing exchanger bundle from skid, balance point lost, exchanger dipped and spilled.
9/15/90	90360125803	BPXA	y	GC 3 Skid 8, 10% to water surface	Crude	10	Gravel removed, oil on pond absorbed. gravel to arco pad 3, sorbents sto nsb incinerator, water reinjected.	Multiple	Valve to vent left open, line pressured up and blew hose out of barrel.
9/16/90	90360125802	BPXA	y	GC 3 Skid 8, Pad and pond, no tundra	Crude	10	Gravel removed, absorbents used on pond. vac truck used on remainder. gravel to pad 3, sorbents to nsb incin., water injected.	Multiple	
9/28/90	90360127104	BPXA	y	BOC, Contained on pad	Diesel	10	Absorbents used, gravel scraped up. all taken to a3w2 for disposal.	Approved Landfill	
10/1/90	90360227401	VECO	y	SIP, Gravel pad	Seawater	10	Snow, gravel removed, taken to cuttings box and then to pad 3.	Approved Landfill	Overflow valve failed.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/3/90	90360127603	ARCO Alaska, Inc.	y	DS 12, Snow/gravel	Hydraulic oil	10	Loader removed snow/gravel, stored in lined pit on location.	Interim Containment	Well bore fluid, 50-50 crude/diesel.
10/4/90	90360227701	Dowell Schlumberger	m	DS Yard, 10 x 15 on ice	Other	10	Allowed to freeze on ice. loader will removed snow down to gravel, put in frac tanks for recycle.	Recycled	While moving 2 hot water storage tanks, residual sediment spilled 80% water, 20% mud, trace of glycol.
10/11/90	90360928401	BPXA	y	GC 3 Skid 5, Gravel pad	Antifreeze	10	6 yds gravel removed, taken to arco pad 3.	Approved Landfill	Soiled gravel discovered.
10/27/90	90360130001	Big State Logistics	y/m	ARCO Topping Plant-Deadhorse, Gravel	Diesel	10	Absorbents used, snow removed. pads put in salvage drums, snow bagged, sent to fbks for disposal.	Multiple	
10/27/90	90360130004	Big State Logistics	y/m	ARCO/Exxon topping plant, Deadhorse, Snow	Diesel	10	Absorbents used, placed in salvage drum on site. snow removed, taken to fairbanks for disposal.	Multiple	
11/8/90	90360931201	B.J. Services	y	DS 7 Well 34, Gravel Pad	Methanol	10	Loader removed material, took to pad 3.	Approved Landfill	
11/12/90	90360131601	BPXA	m	Gas outlet, Contained on pad	Crude	10	Snow removed, melted, injected pad 3.	Subsurface Injection	Gas escaped from gas-buster line.
11/14/90	90360931801	ARCO Alaska, Inc.	y	MCC, Contained on pad	Antifreeze	10	Loader and bucket removed material, taken to pad 3.	Approved Landfill	Suspect Haul Road truck.
11/15/90	90360231901	ARCO Alaska, Inc.	y	DS 12 Well 12, Contained on snow	Seawater	10	Scraped up, taken to pad 3.	Approved Landfill	Relief valve prematurely released.
11/16/90	90360232001	ARCO Alaska, Inc.	y	DS 12 Well 12, Contained on snow on pad	Gelled water	10	Loader removed snow/material. put in pad 3 sw pit.	Approved Landfill	Residual fluids leaked out while cleaning hose.
12/1/90	90360933501	ARCO Alaska, Inc.	y	DS L5 Well 16, Not given	Antifreeze	10	Absorbents used, snow removed. taken to pad 3 sowp.	Approved Landfill	Heat exchanger valve open.
12/8/90	90360234201	Alaska Petroleum Contractors	y	DS 13 Well 7, Not given	Gelled water	10	Snow and ice removed, re-heated. no disposal given.	Unknown	XCD 216 polymer.
12/10/90	90360234401	Peak Oilfield Services	y	SIP, Snow/ice on pad	Seawater	10	Loaders removed snow, injected.	Subsurface Injection	
12/13/90	90360134702	BPXA	y	Pad W Ice Rd., Contained on road	Hydraulic oil	10	Snow, ice scooped up, taken to a3w2 for recovery.	Recycled	
12/27/90	90360936101	Dowell Schlumberger	m	DS Yard, Prudhoe, 2 x 4 area	Other	10	Shovels removed ice/snow, placed in sw dumpster.	Approved Landfill	Ambitrol. Material biodegradeable.
1/3/91	91360100302	BPXA	y	Z Pad Well 13, Contained in snow on pad	Engine lube oil	10	Loader removed snow. snow/produced water taken to t pad pit. snow/oil taken to a3w2 melt tank.	Multiple	10 gal lube oil, 30 gal prod water leaked during transfer.
1/7/91	91360100701	BPXA	m	Location given as "Diesel Fuel", Contained on pad	Diesel	10	Ssalped snow/ice, placed in melt tank.	Interim Containment	
1/15/91	91360101502	BPXA	m	Piperack near Skid 301, Contained on pad	Crude	10	Due to extreme temp conditions, cleanup will be completed withing the next 10 days.	Other	Vent allowed to open while N2 being introduced.
1/31/91	91360903102	ARCO Alaska, Inc.	y	CGF, Snow on pad	Antifreeze	10	Loader removed snow, taken to pad 3 sw pit.	Approved Landfill	
2/12/91	91360104304	BPXA	y	A Pad Well 22, ssstained on pad	Crude	10	Material removed by loader, taken to t pad pit for summer recovery.	Interim Containment	Drips from Frac flowbvack work.
2/13/91	91360904401	Conoco	y	G Pad, 8 sq ft gravel pad	Antifreeze	10	Shovels removed material, put into drums, taken to temp storage d pad.	Interim Containment	Camlock fitting came loose on production line. Peak Oil contractors.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/27/91	91360205801	Alaska Petroleum Contractors	y	DS 11 Well 3, Snow on gravel	Gelled water	10	Loader removed material, injected pad 3.	Subsurface Injection	
3/6/91	91360106502	Udelhoven Inc.	m	Near Fab Shop Bldg, Prudhoe, Containment area	Diesel	10	Area covered with visqueen. will heat area, melt snow, vacuum up water and product. dispose of pad 3.	Interim Containment	Line cracked due to snow load.
3/15/91	91360907403	BPXA	y	J Pad, Contained on pad	Antifreeze	10	Shovel, pick used. contaminates hauled to melter at a3w2.	Interim Containment	Discovered during routine pad inspection.
3/16/91	91360107505	Canadian Fracmaster	y	DS 3 Well 20, Snow on pad	Crude	10	Shovels, absorbents used. absorbents to nsb incin., snow melted, injected pad 3.	Multiple	50% crude, 30% methanol, 20% water.
3/16/91	91360907501	BPXA	y	H Pad Methanol tank, Contained on pad	Methanol	10	Material shoveled up, thawed and reused.	Recycled	Vac truck hatch gasket leaked during transfer.
3/26/91	91360908503	ARCO Alaska, Inc.	y	DS 14 Well 37, 20 x 10 snow on gravel	Methanol	10	Loader used. material melted, injected pad 3.	Subsurface Injection	Possible leaky valve on slop oil trailer.
3/30/91	91360908902	BPXA	y	Y Pad Well 27, Contained on pad	Methanol	10	Loader removed material, put in t pad lined pit for summer recovery.	Interim Containment	Leaks, disconnects associated with well work.
4/1/91	91360909101	BPXA	y	BOC fuel pumps, Contained on pad	Diesel	10	Loader removed material, taken to a3w2 melt tank.	Interim Containment	Accumulation gas/diesel from fueling of vehicles.
4/5/91	91360109501	ARCO Alaska, Inc.	y	DS 3, Snow covered gravel pad	Waste crankcase	10	Hand tools removed material. melted, reused.	Recycled	Crankcase vent froze on portable generator, causing excessive back-pressure.
4/5/91	91360109503	Peak Oilfield Services	y	DS 15, Snow/ice	Engine lube oil	10	Loader immediately scraped up all snow/ice. taken to sw pit pad 3.	Approved Landfill	
4/25/91	91360911501	Halliburton Services	y	L2 Well 14, 20 sq ft ice on pad	Other	10	Chipped up ice, melted by halliburton. arco injected pad 3.	Subsurface Injection	70/30 acid/crude mixture consisting of 10% hydrochloric acid/30% crude oil spilled when valve on tiger tank leaked.
4/26/91	91360111601	BPXA	m	Spine Rd, central check point, Contained on road	Diesel	10	Absorbents used. snow shoveled into bags. sorbents to nsb incinerator, snow to a3w2.	Incineration/approved Landfill	Side fuel tank punctured in transit. Leak discovered at checkpoint.
5/12/91	91360113201	Camco	y	NGI 7, 800 sq ft snow on gravel	Heavy grease	10	Steamed; used vac truck and shovels. arco did disposal. sorbents to incin., liquids to pad 3.	Multiple	Liquid O ring grease leaked from high pressure grease head when line ruptured.
5/15/91	91360113501	BPXA	y	GC3 Skid 451, Contained on pad	Crude	10	Loader removed snow/gravel, took to t pad pit.	Approved Landfill	Maintenance vent left open.
5/27/91	91360914702	BPXA	y	Q Pad Well 3, Contained on pad	Methanol	10	Sorbents used. will be left in place until job completed, then incin. nsb.	Incinerated	Wellbore fluids leaked from pack off element when pressure reduced.
5/28/91	91360114802	ARCO Alaska, Inc.	y	COTU, Gravel	Diesel	10	Gravel removed, placed in haz waste drum. taken to c pad to be shipped to permitted tsd facility	Interim Containment	50/50 diesel/water. Total vol. 20 gal.
6/16/91	91360116704	Alaska Petroleum Contractors	y	DS 12 Well 12, 10 x 15 gravel	Diesel	10	Loader, bucket removed gravel. materials taken to pad 3 swp and nsb incin.	Incineration/approved Landfill	
6/21/91	91360917201	Pool Arctic Alaska Drilling	y	DS 3 Well 35, Gravel	Antifreeze	10	Absorbents used, incinerated nsb. liquids injected pad 3.	Multiple	Will move drilling rig in about 2-3 weeks and will check for further contamination.
6/24/91	91360117504	BPXA	y	GC2 skid 450, Contained on pad	Crude	10	Shovels, absorbents for gravel. taken to t pad pit.	Approved Landfill	Overflfow of reserve pit.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/1/91	91360918201	Peak Oilfield Services	y	GC on BP Ex site, 3 sq ft gravel	Other	10	Absorbents, loader used. taken to nsb incin.	Incinerated	Barrel tipped, spilling turbine cleaner.
7/2/91	91360118301	Norcon	y	DS 12 near module, 9 sq ft gravel road	Hydraulic oil	10	Drum caught some of fluid, sorbents used. contaminants bagged, taken to disposal site.	Approved Landfill	
7/2/91	91360918301	BPXA	y	GC 2 Skid 6, Gravel pad	Other	10	Material shoveled up, bagged, taken to arco pad 3.	Approved Landfill	
7/5/91	91360118602	Alaska Petroleum Contractors	y	FS 1, 4 x 6 sq ft	Crude	10	Absorbents used, gravel removed. absorbents to nsb incin., gravel to pad 3 sowp.	Incineration/approved Landfill	
7/5/91	91360118605	BPXA	y	J Pad near entrance, Contained on pad	Diesel	10	Shovels, loader used, taken to t pad.	Approved Landfill	Discovered during pad inspection.
7/17/91	91360119801	BPXA	y	S Pad behind Well 19, Contained on pad	Crude	10	Shovels removed material, took to t pad lined pit.	Approved Landfill	Slow leak from loose flange bolts.
7/25/91	91360220601	Alaska Petroleum Contractors	y	West Beach State #4, 1/8 cy gravel	Seawater	10	Super sucker used. seawater injected, gravel taken to pad 3 sowp.	Multiple	Agitator leaking on A 96 GT 12.
7/30/91	91360221101	BPXA	y	GC 1 WSW 326, Contained on pad	Produced water	10	Loader, shovels removed gravel. no disposal given.	Not Given	Vent scrubber overfilled.
7/31/91	91360921201	Production Testing Services	y	West Beach Pad, ss6 to 8 sq yds gravel	Methanol	10	Shovels used, gravel bagged, taken to pad 3 owp.	Approved Landfill	Valve not closed completely.
8/3/91	91730121504	BPXA	y	M Pad Well 5, Contained on pad	Diesel	10	Guzzler work will be required to pull the contam. gravel out from wellhouse base. will be taken to arco pad 3.	Approved Landfill	Well cellar overflowed with water causing diesel to leak from inside cellar box.
8/10/91	91730122203	ARCO Alaska, Inc.	y	FS 2, Gravel pad	Transmission oil	10	Shovels, absorbents used. pads to nsb incin., gravel to pad 3.	Incineration/approved Landfill	Block in vent of air compressor.
8/10/91	91730122204	BPXA	y	R Pad Well 8, Contained on pad	Diesel	10	Gravel removed with loader, shovels. taken to t pad disposal.	Approved Landfill	Discharged 10 gal produced water and 10 gal diesel, for total of 20 gal. spilled.
8/12/91	91730122404	BPXA	y	GC1 WSW dirty water tank, Contained on pad	Diesel	10	Loader used, material taken to pad 3 owp.	Approved Landfill	Unreported spill discovered during inspection.
9/4/91	91730924701	Alaska Petroleum Contractors	y	J Pad, 9 x 20 gravel pad	Methanol	10	Loader, bucket used. put in open top tank, washed, recycled.	Recycled	Sight glass plugged. Wind dispersed methanol.
9/23/91	91730222602	ARCO Alaska, Inc.	y	DS L4 Well 31, Gravel	Gelled water	10	Super sucker used. gravel to pad 3, fluid injected pad 3.	Multiple	98% gel water, 1% crude, 1% frac sand.
9/27/91	91730927001	ARCO Alaska, Inc.	y	DS Maintenance Yard, Gravel pad	Antifreeze	10	Shovels, loader used. gravel washed, reused. liquid injected pad 3.	Multiple	Loose clamp on hose.
10/7/91	91730928001	BPXA	y	R Pad Well 3, 3 sq ft gravel	Methanol	10	Absorbents used, snow/gravel scraped up with grader and loader. sorbents to nsb incin., gravel to arco pad 3.	Incineration/approved Landfill	Ice plug released cauing surge of gas and fluid into tank. Total volume 70 gal. prod. water, 10 gal. methanol.
10/23/91	91730229601	VECO	y	SIP, 1/4 yd snow/ice	Seawater	10	Loader removed snow/ice, put in cuttings box then to pad 3 sw pit.	Approved Landfill	
10/28/91	91730130103	BPXA	y	Y Pad Well 11, Ice/snow on pad	Diesel	10	Loader, shovels removed materials. taken to pad 3.	Approved Landfill	Loader punctured bleed-off barrel during snow removal.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/5/91	91730930901	ARCO Alaska, Inc.	y	DS 9 Well 33, Snow on gravel	Methanol	10	Shovels, absorbents used. gravel to pad 3 swp, pads to nsb incin.	Incineration/approved Landfill	50% seawater, 49% methanol, 1% crude sprayed when O ring failed.
12/5/91	91730933901	Alaska Petroleum Contractors	y	ARCO's J(unk) Pad, 4 x 6 snow on gravel	Methanol	10	Sucked up methanol, put back into tank. scraped up snow, melted, reused.	Recycled	Sight glass misread on trailer.
12/23/91	91730135703	ARCO Alaska Inc.	y	DS 9, 20 sq ft gravel	Hydraulic oil	10	Loader, bucket picked up snow, took to pad 3.	Approved Landfill	Electrical boom truck leaked.
12/24/91	91730135801	Nana Oilfield Services	y	ARCO COTU, Gravel pad	Diesel	10	Absorbents used. snow removed, melted. diesel recovered, pads incinerated.	Incinerated	Tanker truck operator error.
12/29/91	91730136302	ARCO Alaska Inc.	y	DS 2 Well 24, 10 x 5 pad	Diesel	10	Loader removed snow/diesel. taken to ds 1 snowmelter. sorbents to nsb incinerator.	Multiple	Anulus valve on tree.
1/1/92	92730100101	BPXA	y	GC3 Skid 318, Contained on pad	Diesel	10	Gravel/snow removed by loader, taken to a3w2 melt tank.	Interim Containment	Bypass valve on day tank opened accidentally.
1/20/92	92730902001	ARCO Alaska Inc.	y	DS 6 Well 22, Contained on pad	Other	10	Shovled snow up, will inject pad 3.	Subsurface Injection	Mixture 1% potassium chloride, 99% fresh water spilled when coil broke.
1/22/92	92730102202	BPXA	y	A Pad Vent Pit, Contained in pit	Crude	10	Material scraped up with loader, taken to a3w2 melt tank.	Approved Landfill	Flange failure leaked oil into gas lift line.
1/25/92	92730102501	BPXA	y	S Pad Well 8, Contained on pad	Diesel	10	Snow/ice scraped up with grader/shovels. material placed in slop tank.	Interim Containment	
1/25/92	92730102502	BPXA	y	S Pad Well 8, Contained on pad	Diesel	10	Snow/ice scraped up with grader/shovels, placed in s top tank.	Interim Containment	
2/7/92	92730103802	BPXA	y	Between Well 3-15 and piperack, Contained on pad	Diesel	10	Snow scraped up, taken to snow melt tank.	Interim Containment	
2/20/92	92730205102	Cold Weather Contractors	y	SIP, 15 sq ft ice/snow on pad	Seawater	10	Chipped up material, bagged, took to bp snow melter, injected.	Subsurface Injection	CWC last truck in loading area, but unable to find leak on truck.
3/5/92	92730906601	BPXA	y	B Pad Well 31, Contained on pad	Antifreeze	10	Material shoveled into bag, taken to t pad pit for summer recovery.	Interim Containment	
3/13/92	92730107302	ARCO Alaska Inc.	y	DS 1, Snow on pad	Hydraulic oil	10	Vac unit removed snow, melted, injected pad 3.	Subsurface Injection	
3/17/92	92730907701	BPXA	y	BOC stores, Contained on pad	Acid	10	Contaminated snow neutralized with soda ash. neutralized gravel left in place.	None Required	While moving pallets, crate broke, container punctured.
4/10/92	92730910201	BPXA	y	GC3 Skid 402, Contained on pad	Other	10	Loader, grader removed material, took to t pad for summer recovery.	Recycled	Brass fitting sheared off allowing scale inhibitor to flood belly pan.
7/29/95	95399921001	ARCO ALASKA INC.	y	East Prudhoe Bay, DS 15,	Crude	10	Took Report, Case Closed 01-00-00		Human Error
8/16/95	95399922802	BPXA	y	West Prudhoe Bay, GC 1 SKID 41,	Ethylene Glycol (Antifreeze)	10	Took Report, Case Closed 01-00-00		Overfill
9/16/95	95399925901	PEAK OILFIELD	ym	West Prudhoe Bay, WEST DOCK BREACH,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Line Failure
9/24/95	95399926702	ARCO ALASKA INC.	y	East Prudhoe Bay, FS 2,	Produced Water	10	Took Report, Case Closed 01-00-00		Overfill
9/25/95	95399926802	BPXA	y	West Prudhoe Bay, A PAD, SKID 52,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/4/95	95399927702	BPXA	y	West Prudhoe Bay, X PAD WELL 16,	Crude	10	Took Report, Case Closed 01-00-00		Unknown
10/7/95	95399928001	PEAK OILFIELD SERVICES	y	East Prudhoe Bay, DS 6,	Ethylene Glycol (Antifreeze)	10	Took Report, Case Closed 01-00-00		Line Failure
10/25/95	95399929801	ARCO ALASKA INC.	y	East Prudhoe Bay, CGF,	Drag Reducing Agent	10	Took Report, Case Closed 01-00-00		Equipment Failure
1/4/96	96399900401	BPXA	y	West Prudhoe Bay, Y PAD,	Methyl Alcohol (Methanol)	10	Phone Follow-up, Case Closed 01-05-96		Gauge/Site Glass Failure
1/6/96	96399900603	PEAK OILFIELD SERVICE	ym	West Prudhoe Bay, COLVILLE ICE ROAD,	Diesel	10	Phone Follow-up, Case Closed 02-06-96		Line Failure
1/17/96	96399901702	BPXA	y	West Prudhoe Bay, CC2 PAD,	Drilling Muds	10	Took Report, Case Closed 01-00-00		Equipment Failure
1/21/96	96399902102	BPXA	y	West Prudhoe Bay, SPINE ROAD W. OF LAKE AFRICA,	Drilling Muds	10	Took Report, Case Closed 01-00-00		Leak
1/22/96	96399902202	BPXA	y	West Prudhoe Bay, SPINE RD., NEAR LAKE AFRICA,	Drilling Muds	10	Took Report, Case Closed 01-00-00		Unknown
2/4/96	96399903504	ARCO	y	East Prudhoe Bay, DS 1,	Crude	10	Took Report, Case Closed 01-00-00		Unknown
2/9/96	96399904001	BPXA	y	West Prudhoe Bay, F PAD,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Seal Failure
2/17/96	96399904804	ARCO	y	East Prudhoe Bay, DS 4,	Crude	10	Took Report, Case Closed 01-00-00		Valve Failure
2/21/96	96399905202	BPXA	ym	West Prudhoe Bay, SPINE RD,	Diesel	10	Took Report, Case Closed 01-00-00		Rollover/Capsize
3/19/96	96399907904	BPXA	y	East Prudhoe Bay, DS 15,	Drilling Muds	10	Took Report, Case Closed 01-00-00		Equipment Failure
3/21/96	96399908101	ARCO	y	East Prudhoe Bay, DS 4G & I,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Line Failure
3/28/96	96399908804	VECO	ym	East Prudhoe Bay, U9-A WAREHOUSE,	Ethylene Glycol (Antifreeze)	10	Phone Follow-up, Case Closed 01-00-00		Equipment Failure
4/1/96	96399909202	ARCO	y	East Prudhoe Bay, DS 9,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Line Failure
4/24/96	96399911502	ARCO	y	East Prudhoe Bay, DS 11,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Line Failure
6/7/96	96399915902	ARCO	y	Drill Site 1 (DS-1),	Crude	10	Took Report, Case Closed 01-00-00		Seal Failure
7/8/96	96399919001	BPXA	y	West Prudhoe Bay, R PAD,	Crude	10	Field Visit/s, Case Closed 07-09-96		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/8/96	96399919003	BPXA	y	R PAD RELIEF PIT,	Crude	10	Took Report, Case Closed 01-00-00		Equipment Failure
7/15/96	96399919701	ARCO	y	Flow Station 1 (FS-1),	Engine Lube Oil	10	Took Report, Complaint/Report Received 07-17-96		Seal Failure
8/12/96	96399922502	BPXA	y	S PAD EXTENSION,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Seal Failure
8/15/96	96399922801	ARCO	y	PBOC, BEHIND VALVE SHOP,	Diesel	10	Phone Follow-up, Case Closed 05-29-97		Overfill
8/29/96	96399924202	NORTHERN GEOPHYSICAL	y	WEST DOCK PAD 3,	Diesel	10	Took Report, Case Closed 09-11-96		Seal Failure
9/18/96	96399926201	BPXA	y	BULK FUEL STATION, WOA,	Gasoline	10	Took Report, Case Closed 01-00-00		Human Error
10/4/96	96399927801	ARCO	y	MCC AND PARTLY OUTSIDE PBOC,	Diesel	10	Took Report, Case Closed 01-00-00		Leak
10/18/96	96399929202	ARCO	y	NGI,	Diesel	10	Took Report, Case Closed 01-00-00		Overfill
11/3/96	96399930801	BPXA	y	PRICE PAD, WOA,	Methyl Alcohol (Methanol)	10	Phone Follow-up, Case Closed 11-17-97		Tank Failure
1/5/97	97399900501	BPXA	y	West Prudhoe Bay, Well Pad R,	Diesel	10	Took Report, Case Closed 01-00-00		Other
1/18/97	97399901801	NORTHERN GEOPHYSICAL	ym	East Prudhoe Bay,	Engine Lube Oil	10	Took Report, Case Closed 01-19-97		Seal Failure
2/9/97	97399904001	ARCO	ym	East Prudhoe Bay, CHECKPOINTS,	Other	10	Took Report, Case Closed 01-00-00		Unknown
3/1/97	97399906001	BPXA	y	West Prudhoe Bay, J PAD,	Crude	10	Took Report, Case Closed 06-22-97		Overfill
3/10/97	97399906902	BPXA	ym	West Prudhoe Bay, SANTA FE PAD,	Diesel	10	Took Report, Case Closed 01-00-00		Leak
4/15/97	97399910501	ARCO	y	Drill Site 11, DS-11 Crude spill	Crude	10	Phone Follow-up, Final Report 10-03-97		Valve Failure
5/4/97	97399912402	B.P	y	West North Slope, B.P. Well Pad S.,	Corrosion Inhibitor	10	Took Report, Case Closed 01-00-00		Other
5/4/97	97399912403	BPXA	y	West North Slope, BPWell Pad S.,	Corrosion Inhibitor	10	Took Report, Case Closed 06-06-97		Leak
6/4/97	97399915505	ARCO	y	West Prudhoe Bay, PAD #3.,	Drag Reducing Agent	10	Phone Follow-up, Case Closed 06-27-97		Leak
7/6/97	97399918701	BPXA	y	West North Slope, BP Well Pad H.,	Corrosion Inhibitor	10	Took Report, Case Closed 09-17-97		Overfill
7/14/97	97399919503	ARCO EOA	y	EAST NORTH SLOPE, ARCO DS 17.,	Hydraulic Oil	10	Phone Follow-up, Case Closed 07-14-97		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/22/97	97399920301	BPXA	y	West North Slope, BP BETWEEN K PAD & C PAD.,	Other	10	Took Report, Case Closed 01-00-00		Valve Failure
7/28/97	97399920903	PARKER DRILL CO.	ym	West Prudhoe Bay, PARKER DRILL CO.,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Line Failure
8/3/97	97399921501	BPXA	y	West North Slope, BP P PAD, Z PAD ACCESS ROAD.,	Crude	10	Field Visit/s, Case Closed 10-08-97		Valve Failure
9/10/97	97399925302	BPXA	y	West North Slope, BP CC2 PAD.,	Drilling Muds	10	Phone Follow-up, Case Closed 01-00-00		Other
10/28/97	97399930101	ARCO	y	EAST NORTH SLOPE, ARCO DS 3.,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Leak
11/7/97	97399931101	B.P.	y	West North Slope, B.P. Well Pad H.,	Other	10	Took Report, Other 12-03-99		Leak
11/9/97	97399931301	ARCO	y	EAST NORTH SLOPE, ARCO DS 15 WELL 11.,	Other	10	Took Report, Case Closed 11-14-97		Seal Failure
1/22/98	98399902201	B.P.	y	West North Slope, B.P. Well Pad X.,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 01-00-00		Valve Failure
1/23/98	98399902301	B.P.	ym	West North Slope, B.P. PAD X WELL 36.,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 07-01-98		Valve Failure
1/31/98	98399903103	ARCO	y	EAST NORTH SLOPE, ARCO LPC.,	Crude	10	Took Report, Case Closed 01-00-00		Corrosion
2/27/98	98399905801	ARCO	ym	EAST NORTH SLOPE, ARCO AGI FACILITY.,	Other	10	Took Report, Case Closed 01-00-00		Valve Failure
2/27/98	98399905804	ARCO	y	EAST NORTH SLOPE, ARCO AGI.,	Other	10	Took Report, Case Closed 01-00-00		Leak
2/28/98	98399905903	ARCO	y	EAST NORTH SLOPE, ARCO DS7.,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 01-00-00		Leak
3/17/98	98399907603	VECO/B.P.	ym	EAST NORTH SLOPE, VECO/B.P. SPINE ROAD.,	Diesel	10	Took Report, Case Closed 04-08-98		Collision/Allision
3/19/98	98399907801	B.P.	y	West North Slope, B.P. Well Pad X.,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Line Failure
3/22/98	98399908101	B.P.	y	West North Slope, B.P.Well Pad C.,	Diesel	10	Took Report, Case Closed 04-09-98		Leak
3/23/98	98399908202	WESTERN GEOPHYSICAL	ym	West North Slope, WESTERN GEOPHYSICAL.,	Hydraulic Oil	10	Took Report, Case Closed 01-00-00		Valve Failure
4/6/98	98399909603	B.P.	y	West North Slope, B.P. Well Pad N.,	Produced Water	10	Took Report, Case Closed 04-13-98		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/6/98	98399909604	DOWELL SCHLUMBERGER	y	EAST NORTH SLOPE, DOWELL SCHLUMBERGER/ARCO, DS 11.,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 01-00-00		Equipment Failure
4/18/98	98399910802	B.P.	ym	EAST NORTH SLOPE, B.P.NWE ICE PAD #2.,	Drilling Muds	10	Took Report, Case Closed 01-00-00		Leak
4/26/98	98399911601	B.P.	ym	EAST NORTH SLOPE, B.P. ENDICOTT FIELD.,	Hydraulic Oil	10	Took Report, Other 12-03-99		Equipment Failure
5/1/98	98399912102	VECO	ym	EAST NORTH SLOPE, VECO, PAD 10 METHANOL DOCK.,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 01-00-00		Seal Failure
5/6/98	98399912601	B.P.	y	West North Slope, B.P. Well Pad Z.,	Diesel	10	Took Report, Case Closed 01-00-00		
5/26/98	98399914601	B.P.	y	West North Slope. B.P.Well Pad C.,	Crude	10	Took Report, Case Closed 06-22-98		Seal Failure
6/4/98	98399915501	B.P.	ym	West North Slope, B.P. PRICE PAD.,	Diesel	10	Took Report, Other 06-10-98		Leak
6/5/98	98399915603	ARCO/PEAK OIL SERVICES	ym	EAST NORTH SLOPE, ARCO/PEAK OIL SERVICES,	Seawater	10	Took Report, Case Closed 01-00-00		Leak
6/6/98	98399915702	B.P.	y	West North Slope, B.P. WEST BEACH #5.,	Other	10	Took Report, Case Closed 01-00-00		Other
8/3/98	98399921503	SCHLUMBERGER/ARCO	ym	EAST NORTH SLOPE, DRILL SITE 1, WELL 20,	Diesel	10	Took Report, Case Closed 08-05-98		Human Error
8/9/98	98399922101	ARCO	y	East Prudhoe Bay, FS1,	Seawater	10	Took Report, Case Closed 01-00-00		Corrosion
8/30/98	98399924201	ARCO	y	EAST NORTH SLOPE, ARCO, DRILL SITE 17,	Diesel	10	Took Report, Case Closed 09-01-98		Other
9/5/98	98399924802	ARCO	y	East Prudhoe Bay, ARCO, FLOW STATION 2,	Other	10	Took Report, Case Closed 01-00-00		Corrosion
10/11/98	98399928405	ARCO	y	East Prudhoe Bay, ARCO, CGF,	Other	10	Took Report, Case Closed 12-22-98		Leak
10/23/98	98399929602	BPXA	y	West Prudhoe Bay, BP, Well Pad E,	Seawater	10	Took Report, Case Closed 10-23-98		Human Error
1/17/99	99399901701	PEAK	ym	West Prudhoe Bay, BP, SPINE ROAD,	Crude	10	Took Report, Case Closed 01-20-99		Overfill
2/2/99	99399903301	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, ARCO, DS 15-11,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 02-04-99		Seal Failure
2/11/99	99399904201	DOWELL	y	Drill Site 15,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 02-15-99		Other
3/13/99	99399907205	ARCO	y	ARCO, EOA, DS 3,	Crude	10	Took Report, Case Closed 03-18-99		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/2/99	99399909201	DOWELL SCHLUMBERGER	y	BP, Well Pad D,	Diesel	10	Took Report, Case Closed 07-20-99		Rollover/Capsize
5/24/99	99399914401	PEAK OILFIELD SERVICE CO.	y	East Prudhoe Bay,INTERSECTION OF OXBOW & WEST DOCK,	Diesel	10	Took Report, Case Closed 05-24-99		Collision/Allision
5/30/99	99399915001	BPXA	y	Gathering Center 3 (GC-3),	Produced Water	10	Took Report, Case Closed 06-01-99		Valve Failure
6/15/99	99399916604	CAMCO	ym	East Prudhoe Bay, CAMCO YARD, SPINE RD, CAMCO Yard contamination	Unknown	10	Phone Follow-up, Case Closed Transferred To CSITES 01-03-01		Unknown
7/7/99	99399918801	VECO ALASKA OPERATION EOA	ym	West North Slope,DRILL SITE 9 WELL 50,	Crude	10	Took Report, Case Closed 07-08-99		Human Error
7/13/99	99399919402	ARCO ALASKA	ym	EAST NORTH SLOPE, WEST DOCK BREACH,	Hydraulic Oil	10	Took Report, Case Closed 07-13-99		Line Failure
7/26/99	99399920701	NANA OILFIELD SERVICES	y	East Prudhoe Bay, ARCO @ WEST DOCK,	Diesel	10	Took Report, Case Closed 07-26-99		Other
8/9/99	99399922101	BPXA	y	PRUDHOE BAY, BP, GC-3 PAD,	Diesel	10	Took Report, Case Closed 08-11-99		Human Error
9/18/99	99399926101	BPXA	y	BP, PBU, Well Pad N,	Crude	10	Took Report, Case Closed 09-22-99		Leak
9/22/99	99399926501	PURCELL SERVICES	ym	East Prudhoe Bay, MCC & PBOC PARKING LOTS & BETWEE,	Diesel	10	Took Report, Case Closed 09-22-99		Other
10/6/99	99399927901	ARCO ALASKA	ym	East Prudhoe Bay, DS15 OFF THE GRAVEL PAD NEAR WEL,	Diesel	10	Field Visit/s, Case Closed 09-06-00		External Factors
10/23/99	99399929602	ARCO ALASKA	ym	East Prudhoe Bay, FLOW STATION 2 UNDERNEATH MODULE,	Produced Water	10	Took Report, Case Closed 10-26-99		Corrosion
1/6/00	00399900602	ARCO/BP EXPLORATION	y	West Prudhoe Bay, GC-3 PAD,	Hydraulic Oil	10	Took Report, Case Closed 01-06-00		Line Failure
1/8/00	00399900801	BPXA	y	Gathering Center 3 (GC-3),	Natural Gas	10	Took Report, Case Closed 01-09-00		External Factors
1/27/00	00399902701	BPXA	y	West Prudhoe Bay, Well Pad E-25,	Diesel	10	Took Report, Case Closed 01-29-00		Equipment Failure
1/30/00	00399903101	VECO/ARCO ALASKA	y	East Prudhoe Bay, DRILLSITE 4,	Hydraulic Oil	10	Took Report, Case Closed 01-30-00		Seal Failure
4/3/00	00399909401	ARCO ALASKA	ym	East Prudhoe Bay, DRILLSITE 1 WELL 10,	Corrosion Inhibitor	10	Took Report, Case Closed 04-15-00		Gauge/Site Glass Failure
5/10/00	00399913101	BPXA	ym	West Prudhoe Bay, GC-1 OIL SECTION,	Crude	10	Took Report, Case Closed 05-11-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/6/00	00399915802	NORDIC/BP EXPLORATION	y	West Prudhoe Bay, Well Pad N,	Hydraulic Oil	10	Took Report, Case Closed 06-07-00		Leak
7/1/00	00399918302	PHILLIPS ALASKA	y	East Prudhoe Bay, EASTERN OPERATING AREA, DRILL SI,	Hydraulic Oil	10	Took Report, Case Closed 07-02-00		Line Failure
7/7/00	00399918901	ConocoPhillips Alaska	y	Drill Site 18,	Crude	10	Took Report, Case Closed 07-09-00		Line Failure
7/16/00	00399919801	BPXA	y	Well Pad R, Well Pad R-28 Well Leak	Crude	10	Phone Follow-up, Final closure pending 09-14-01		Line Failure
8/2/00	00399921501	BPXA	ym	West Prudhoe Bay, Well Pad W, MODULE 509,	Other	10	Took Report, Case Closed 08-07-00		Leak
8/16/00	00399922901	ALASKA WEST EXPRESS INC	y	West Prudhoe Bay, C-PAD,	Other	10	Phone Follow-up, Case Closed 08-18-00		Valve Failure
9/23/00	00399926701	BPXA	y	West Prudhoe Bay, Well Pad K,	Crude	10	Took Report, Case Closed 09-23-00		Seal Failure
10/22/00	00399929601	BPXA	ym	West Prudhoe Bay, DRILL SITE 5 WELL 25,	Drilling Muds	10	Took Report, Case Closed 10-22-00		Erosion
11/7/00	00399931201	SCHLUMBERGER/BP EXPLORATION ALASKA	y	West Prudhoe Bay, DRILL SITE 3-36,	Diesel	10	Took Report, Case Closed 11-16-00		Seal Failure
12/12/00	00399934701	BPXA	y	West Prudhoe Bay, Well Pad M-17,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 12-15-00		Equipment Failure
1/15/01	01399901502	DOWELL SCHLUMBERGER/BP EXPLORATION	y	East Prudhoe Bay, PT MCINTYRE #2,	Crude	10	Took Report, Case Closed 01-27-01		Line Failure
1/23/01	01399902302	DOWELL SCHLUMBERGER/BPX AK	y	East Prudhoe Bay, DRILL SITE 15, WELL 43,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 01-27-01		Cargo Not Secured
3/6/01	01399906502	CATCO/PHILLIPS (ALASKA)	ym	West North Slope, PHILLIPS ICE ROAD, COLVILLE RIVE,	Transmission Oil	10	Took Report, Case Closed 03-06-01		Equipment Failure
3/11/01	01399907001	BP EXPLORATION/ HOUSTON CONTRACTING	ym	West Prudhoe Bay, MILNE POINT L1, TEXACO PAD,	Diesel	10	Took Report, Case Closed 04-18-01		Unknown
4/13/01	01399910301	BPXA	y	West Prudhoe Bay, Well Pad M,	Hydraulic Oil	10	Took Report, Case Closed 04-13-01		Line Failure
4/25/01	01399911501	HB&R/BP EXPLORATION ALASKA	ym	West Prudhoe Bay, WEST OP AREA, SPINE ROAD,	Diesel	10	Took Report, Case Closed 04-25-01		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/2/01	01399918303	BPXA	y	EAST NORTH SLOPE COTU FACILITY,	Crude	10	Took Report, Case Closed 07-20-01		Unknown
8/15/01	01399922701	BPXA	y	East Prudhoe Bay, L-1 RELIEF PIT,	Crude	10	Took Report, Final Report 08-28-01		Unknown
9/17/01	01399926001	M & I Drilling	ym	East Prudhoe Bay, SPINE ROAD,	Other	10	Took Report, Complaint/Report Received 09-17-01		Cargo Not Secured
9/22/01	01399926501	HB&R/BP EXPLORATION ALASKA	y	Well Pad P, P-25,	Methyl Alcohol (Methanol)	10	Took Report, Final Report 09-22-01		Human Error
1/6/02	02399900601	BPXA	y	Well Pad R-9,	Diesel	10	Took Report, Complaint/Report Received 01-07-02		Equipment Failure
1/30/02	02399903002	BPXA	y	Drill Site 13,	Hydraulic Oil	10	Took Report, Final Report 02-01-02		Line Failure
3/20/02	02399907902	BPXA	y	Gathering Center 2 (GC-2),	Produced Water	10	Took Report, Case Closed 03-22-02		Valve Failure
4/23/02	02399911302	PEAK OILFIELD SER/BP EXPLORATION	y	Drill Site 1 (DS-1),	Hydraulic Oil	10	Took Report, Case Closed 04-25-02		Equipment Failure
4/27/02	02399911701	ALASKA PETROLEUM CONTRACTORS	y	EOA Building,	Hydraulic Oil	10	Took Report, Complaint/Report Received 04-30-02		Line Failure
5/7/02	02399912701	BPXA	y	Gathering Center (GC) 3,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 05-08-02		Equipment Failure
7/23/02	02399920403	BPXA	y	EAST OPERATING AREA PRUDHOE BAY, GRIND & INJECT FA,	Seawater	10	Took Report, Final Report 07-25-02		Leak
8/16/02	02399922802	BPXA	y	Lisburne Production Center (LPC),	Ethylene Glycol (Antifreeze)	10	Took Report, Complaint/Report Received 08-20-02		Equipment Failure
10/4/02	02399927703	BPXA	y	COTU,	Ethylene Glycol (Antifreeze)	10	Field Visit/s, Case Closed 10-14-02		Equipment Failure
11/15/02	02399931901	BPXA	y	Drill Site 7, Well 26,	Diesel	10	Phone Follow-up, Case Closed 11-18-02		Equipment Failure
2/15/03	03399904603	BPXA	y	Prudhoe Bay Operations Center (PBOC),	Diesel	10	Took Report, Case Closed 02-18-03		Equipment Failure
4/20/03	03399911001	BPXA	y	Well Pad C,	Crude	10	Phone Follow-up, Case Closed 07-02-03		Human Error
5/9/03	03399912901	BPXA	y	Drill Site 15,	Hydraulic Oil	10	Took Report, Case Closed 05-12-03		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/25/03	03399917601	BPXA	y	Well Pad E-15,	Crude	10	Field Visit/s, Case Closed 08-11-03		Equipment Failure
7/4/03	03399918501	BPXA	y	W PAD,	Crude	10	Took Report, Case Closed 07-23-03		Equipment Failure
7/9/03	03399919001	BPXA	y	Pad 3,	Process Water	10	Took Report, Case Closed 07-14-03		Valve Failure
7/12/03	03399919301	BPXA	y	Seawater Injection Plant (SIP),	Seawater	10	Phone Follow-up, Case Closed 07-17-03		Valve Failure
7/25/03	03399920601	BPXA	y	Gathering Center 2 (GC-2),	Ethylene Glycol (Antifreeze)	10	Took Report, Case Closed 07-28-03		Line Failure
9/11/03	03399925401	BPXA	y	Well Pad B,	Crude	10	Phone Follow-up, Final Report 09-15-03		Valve Failure
11/21/03	03399932501	BPXA	y	Well Pad A,	Crude	10	Took Report, Case Closed 11-24-03		Seal Failure
12/3/03	03399933701	BPXA	y	Well Pad X,	Produced Water	10	Field Visit/s, Final Report 12-11-03		Equipment Failure
1/2/04	04399900202	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Propylene Glycol	10	Took Report, Case Closed 01-14-04		Other
1/20/04	04399902001	BPXA	y	Well Pad J,	Hydraulic Oil	10	Took Report, Case Closed 01-21-04		Line Failure
3/6/04	04399906601	BPXA	y	Well Pad D,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 03-07-04		Seal Failure
3/24/04	04399908402	BPXA	y	VMS Building,	Hydraulic Oil	10	Took Report, Case Closed 03-26-04		Line Failure
5/12/04	4399913302	BPXA	y	c Pad,	Corrosion Inhibitor	10	Took Report		Valve Failure
6/14/04	04399916601	BPXA	y	Drill Site 4,	Produced Water	10	Phone Follow-up, Case Closed 06-28-04		Corrosion
8/31/04	04399924401	BPXA	y	Flow Station 1 (FS-1),	Crude	10	Phone Follow-up, Case Closed 09-21-04		Corrosion
9/9/04	04399925302	BPXA	y	Well Pad Z, Z-Pad Doyon Drilling Oil Spill	Hydraulic Oil	10	Field Visit/s, Case Closed 09-22-05		Line Failure
9/30/04	04399927402	BPXA	y	Well Pad Q,	Hydraulic Oil	10	Took Report, Complaint/Report Received 10-01-04		Vehicle Leak, All
10/28/04	04399930201	BPXA	y	East Prudhoe Bay, NGI,	Diesel	10	Phone Follow-up, Case Closed 02-02-05		External Factors
10/30/04	04399930401	BPXA	y	Drill Site 15,	Diesel	10	Took Report, Case Closed 11-01-04		Overfill
11/11/04	04399931601	BPXA	y	Well Pad B,	Corrosion Inhibitor	10	Took Report, Case Closed 11-13-04		Equipment Failure
12/21/04	04399935601	BPXA	y	E PAD,	Corrosion Inhibitor	10	Phone Follow-up, Case Closed 01-06-05		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/13/05	05399913301	BPXA	ym	WEST OPERATING AREA, ACCESS ROAD,	Hydraulic Oil	10	Took Report, Case Closed 05-17-05		Equipment Failure
5/16/05	05399913601	BPXA	ym	East Prudhoe Bay,	Hydraulic Oil	10	Took Report, Case Closed 05-17-05		Unknown
5/26/05	05399914601	BPXA	ym	SPINE ROAD, DEADHORSE,	Hydraulic Oil	10	Took Report, Case Closed 05-30-05		Seal Failure
6/17/05	05399916801	BPXA	y	DRILL SITE L3,	Seawater	10	Took Report, Case Closed 11-02-05		Valve Failure
7/1/05	05399918204	BPXA	y	Central Gas Facility (CGF),	Other	10	Took Report, Case Closed 12-15-05		Line Failure
7/16/05	05399919702	BPXA	y	Gathering Center 2 (GC-2), GC-2 Diesel Release	Diesel	10	Phone Follow-up, Case Closed 07-06-07		Unknown
10/28/05	05399930101	BPXA	y	Drill Site 11,	Seawater	10	Phone Follow-up, Case Closed 01-06-06		Corrosion
11/20/05	05399932401	ASRC Energy Ser (formerly APC)	y	Drill Site 15,	Corrosion Inhibitor	10	Took Report, Case Closed 12-13-05		Line Failure
1/24/06	06399902402	BPXA	y	West Gas Injection,	Diesel	10	Field Visit/s, Case Closed 02-13-06		External Factors
2/5/06	06399903601	BPXA	y	Well Pad K,	Hydraulic Oil	10	Took Report, Final Report 02-06-06		Line Failure
3/23/06	06399908201	BPXA	y	Grind & Injection (G&I) Facility,	Seawater	10	Phone Follow-up, Case Closed 03-28-06		Human Error
4/21/06	06399911101	BPXA	y	Lisburne Production Center (LPC),	Produced Water	10	Took Report, Case Closed 04-25-06		Corrosion
5/5/06	06399912502	BPXA	y	Lisburne Production Center (LPC), Lisburne Prod Ctr Meg/Oil Spill	Other	10	Phone Follow-up, Case Closed 05-23-06		Valve Failure
5/22/06	06399914201	BPXA	y	Drill Site 11, DS-11 Well Casing Leak	Crude	10	Field Visit/s, Final closure pending 07-10-06		Line Failure
6/2/06	06399915301	BPXA	y	GC 1,	Engine Lube Oil	10	Took Report, Case Closed 06-05-06		Seal Failure
6/25/06	06399917602	BPXA	y	Drill Site 15,	Crude	10	Phone Follow-up, Case Closed 06-27-06		Valve Failure
7/25/06	06399920601	BPXA	y	Gathering Center 1 (GC-1),	Crude	10	Took Report, Case Closed 07-27-06		Human Error
7/30/06	06399921101	BPXA	y	Well Pad H, WOA, Well H-31 Crude Leak	Crude	10	Field Visit/s, Final closure pending 04-09-07		Line Failure
8/30/06	06399924202	ALASKA INTERSTATE CONSTRUCTION	y	Well Pad Z,	Hydraulic Oil	10	Took Report, Case Closed 09-01-06		Line Failure
10/2/06	06399927502	BPXA	y	Well Pad K,	Crude	10	Took Report, Case Closed 10-04-06		Human Error
10/22/06	06399929501	BPXA	y	Seawater Treatment Plant (STP),	Hydraulic Oil	10	Phone Follow-up, Case Closed 10-27-06		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/23/06	06399929601	BPXA	y	Gathering Center 2 (GC-2),	Methyl Alcohol (Methanol)	10	Phone Follow-up, Case Closed 10-30-06		Human Error
11/7/06	06399931101	BPXA	y	Well Pad D, Well Pad D-5 Diesel Spill, WOA	Diesel	10	Field Visit/s, Case Closed Transferred To CSITES 07-06-07		Other
11/30/06	06399933401	BPXA	y	Well Pad P,	Methyl Alcohol (Methanol)	10	Took Report, Case Closed 12-06-06		Human Error
01/04/07	07399900403	ENI Petroleum	ym	Rock Flour, Rock Flour	Glycol, Other	10	Took Report, Case Closed 07-02-07		Equipment Failure
02/11/07	07399904201	ASRC Energy Ser (formerly APC)	y	Warm Storage,	Diesel	10	Took Report, Case Closed 02-13-07		Collision/Allision
03/08/07	07399906704	ASRC Energy Ser (formerly APC)	y	Well Pad V,	Methyl Alcohol (Methanol)	10	Took Report, Final Report 03-30-07		Line Failure
03/23/07	07399908201	BPXA	y	Well Pad Y,	Diesel	10	Took Report, Case Closed 03-27-07		Leak
05/27/07	07399914702	BPXA	y	Drill Site 2,	Calcium Chloride (Solid)	10	Took Report, Case Closed 05-29-07		Line Failure
06/23/07	07399917404	Schlumberger/Dowell/BPX	y	Lisburne Production Center (LPC), BP East Prudhoe Bay	Seawater	10	Took Report, Case Closed 07-13-07		Equipment Failure
08/07/07	07399921901	BPXA	y	Gathering Center 2 (GC-2),	Glycol, Other	10	Took Report, Complaint/Report Received 08-09-07		Equipment Failure
11/04/07	07399930802	BPXA	Y	Drill Site 14, Drill Site 14	Methyl Alcohol (Methanol)	10	Took Report, Final Report 11-08-07		Human Error
6/28/83	83360117901	SOHIO/Sharon Hillman	y	East Dock Pad, None, contained on pad.	Crude	9	Gravel scraped w/ shovels; used bucket loader.	Not Given	Final report rec. Entered from old records 6/26/90.
5/7/85	85360112501	Sohio	y	GC3, between tanks and skid, -0-	Crude	9	Put into a pile usinga 966 loader with bucket		-0-
5/18/85	85360113803	Sohio	y	A pad Well 20, -0-	Diesel	9	966 loader		-0-
7/15/85	85360119605	Sohio	y	H-pad 50` behind skid 54, -0-	Crude	9	Picked up contaminated gravel		-0-
10/10/85	85360128301	SOHIO Alaska Petroleum Company	y	R-Pad, Well 2, -0-	Diesel	9	Contaminates scraped up with 966 loader & buckete		-0-
12/27/87	87360136102	VECO, Inc.	m	CWTF Pad, Area around a 966 loader	Hydraulic oil	9	Soaked up with sorbents/contaminants scraped up	Incinerated	-0-

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/16/88	88360110701	Standard Alaska Production Com	y	GC-1, Skid 31`, -0-	Crude	9	Soaked up with sorbents-contaminants scraped up	Incinerated	Flange leak.
7/1/88	88360118303	Standard Alaska Production Com	y	Well B-9, contained on pad	Diesel	9	Contaminated gravelscraped up with bucket loader	Other	-0-
7/14/88	88360119601	SAPCO	y	Gc-2, Skid 25, contained on pad	Crude	9	Contaminated gravel scraped up/absorbents on pool	Other	drain hose from skid fell out of collection barrel
1/13/89	89360101303	SAPC Endicott	y	Well Q-7, contained on pad	Diesel	9	Loader used to scrape up contaminate	Recycled	diesel sprayed on pad during well work
2/11/89	89360104206	BPXA	y	Wells F 15, F 17, contained on pad	Antifreeze	9	Loader for contaminated snow	Unknown	apparent cause from equipment during well work
4/9/89	89360109903	BPXA	y	GC-1 Ullage Hookup area, Contained on pad	Crude	9	Loader used to scrape contaminate from ice and snow. taken to a3/w2 melter for recovery.	Recycled	Operator had not completely closed the upper sample/relief valve. Crude vented during loading.
4/21/89	89360111104	BPXA	y	Well F 3, snow covered tundra 100' x 30'	Crude	9	Snow scraped by loader, taken to snow melter	Not Given	Oil vented during well work, sprayed across pad from well onto snow covered tundra. No tundra damage evident, area to be monitored duringbreakup. Duplicate final rec'd 5-22-89
5/3/89	89360112305	Dowell Schlumberger	y	L 5 Well 36, Prudhoe, none.	Other	9	Snow picked up, taken to reserve pit at l5, well 36.	Not Given	product type DN 600. Bad rubber in camlock connection caused spill.
7/2/89	89360118303	BPXA	y	X Pad Pigging Pit, 10'x 30' tundra lightly sheened	Crude	9	Solids removed with vac truck, oil removed from puddles and flowlines with sorbents. solids to temp lined berm at fab pad, sorbents to nsb incinerator	Multiple	Vac truck driver discharged contaminated muds and sands onto pit dike wall, flow lines and tundra.
7/9/89	89360119002	BPXA	y	C-17, contained on pad	Diesel	9	Sorbents used, gravel removed. sorbents to nsb incinerator, gravel to sant fe pad.	Multiple	Pressure bleed off during well work.
11/14/90	90360131802	BPXA	y	GC 1 Skid 450, Contained on pad	Crude	9	Absorbents used, loader removed gravel. sorbents to nsb incin. gravel to pad 3.	Incineration/approved Landfill	Oil blown out vessel vent.
6/24/91	91360117503	BPXA	y	A Pad skid 32, Contained on pad	Diesel	9	Gravel scraped up by loader, taken to pad 3.	Approved Landfill	-0-
7/21/91	91360120201	Norcon	y	DS5 alley way, 40 sq ft roadway gravel	Hydraulic oil	9	Sorbents used, gravel removed, bagged, taken to pad 3.	Approved Landfill	-0-
10/13/91	91730128604	BPXA	y	U Pad SE side, Contained on pad	Diesel	9	Loader removed gravel, took to a3w2 snow melter.	Interim Containment	-0-
1/25/92	92730902501	BPXA	y	GC 1 Skid 19/22 area, Contained on pad	Antifreeze	9	Container placed under leak. snow to be scraped up with shovels, taken to t pad.	Approved Landfill	-0-
1/25/92	92730902502	BPXA	y	GC 1 Skid 19/22, Contained on pad	Antifreeze	9	Tank placed under leaking pipe. snow scraped up with shovels, taken to t pad.	Approved Landfill	-0-
9/4/95	95399924701	ARCO ALASKA INC.	y	East Prudhoe Bay, COTU,	Diesel	9	Took Report, Case Closed 01-00-00		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/2/00	00399909301	HOUSTON CONT/BP EXPLORATION	ym	West Prudhoe Bay, NORTHSTAR PIPELINE RIGHT OF WAY,	Hydraulic Oil	9	Took Report, Case Closed 04-02-00		Line Failure
1/10/03	03399901001	BPXA	y	Drill Site 5,	Crude	9	Phone Follow-up, Case Closed 01-13-03		Leak
2/1/81	81360103201	Sohio	y	GC 2, Skid 5, PBF, Not given	Condensate	8	Not given.	Not Given	Entered 9-26-89 from old records. Condensate 1-2 gal., water 5 gal. Follow up 3-6-81.
9/17/81	81360126001	ARCO Alaska, Inc.	y	DS 7, test separator pit, 20 sq. ft tundra	Crude	8	Absorbents used, taken to nsb for disposal.	Approved Landfill	Entered 11-20-89 from old records. Depressuring test separator too fast caused crude to blow over pit onto tundra.
3/4/83	83360106301	SOHIO	y	GC 1, Skid 22, Unknown	Antifreeze	8	Shoveled w/front end loader	Unknown	Type:Ethyl-Glycol.Entered from old records 6/20/90.
3/18/83	83360107701	SOHIO	y	M-pad Rig 2 Fuel Pit, Unknown	Diesel	8	Nsb incinerator	Incinerated	Entered from old records 6/20/90.
7/20/83	83360120101	SOHIO/Al Schmoyer	y	F Pad Well House F 2, Unknown	Diesel	8	Sorbents, p/u in bucket.	Not Given	Final report reieved. Entered from old records 6/26/90.
9/17/83	83360126001	SOHIO	y	BOC Pad, None	Waste crankcase	8	Sorbents	Unknown	Final Report also 10/11/83.Entered from old records 7/10/83.
12/23/83	83360935702	SOHIO	y	Stores Yard, Unknown	Other	8	Scraped/shoveled.	Not Given	Type: Corexit 7707. Entered from old records 7/30/90.
5/2/85	85360112301	Sohio	y	A-pad, well-8, -0-	Glycol	8	966 loader scraped up all material		-0-
5/4/85	85360112302	Sohio	y	A-Pad, Well 8, -0-	Glycol	8	966 loader scaped up all material		-0-
4/1/88	88360109202	Standard Alaska Production Com	y	N-8, Area around wellhouse	Crude	8	Contaminants scraped up	Approved Landfill	Wellhouse was heated.
10/2/88	88360127601	ARCO Alaska, Inc.	y	DS 14, Well 7, -0-	Diesel	8	Hand shovels & absorbents & loader	Multiple/see Comments	-0-
10/15/88	88360128905	SAPC Endicott	y	R-21,18,9,10,5,6,and 7, contained on pads	Crude	8	Contaminants to be removed	Incineration/approved Landfill	messy conditions around above areas due to well work and traffic
11/9/88	88360131403	SAPC Endicott	y	Well S-1, contained on pad	Crude	8	Snow scraped up with loader	Approved Landfill	oil sprayed from well house during E-Line work
1/6/89	89360100603	SAPC Endicott	y	Well Pad Z-6, contained on pad	Crude	8	Contaminate removed from site	Subsurface Injection	crude/diesel mix spilled during well bleed-off into drum
2/5/89	89360103604	SAPC Endicott	m	spine rd 1 mi W. central check, contained on pad	Engine lube oil	8	Loader used to remove all contaminates	Incinerated	material found on spine rd; probably fuel off wireline unit
2/11/89	89360104202	ARCO Alaska, Inc.	y	DS L5, Well 8, contained on pad	Diesel	8	Snow scraped up by loader	Approved Landfill	during depressurizing, excess gas pressure caused diesel to splash
2/16/89	89360104705	BPXA	y	150 yds down Y Pad ice road, contained on ice and snow surface	Hydraulic oil	8	Shovels scooped fluid, bagged	Incinerated	hydraulic line broke on drill unit while drilling VSM holes

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/23/89	89360111303	BPXA	y	H Pad, Snow covered tundra 150' x 50' area.	Engine lube oil	8	Oil skimmed from snow with morooka tractor. taken to snow melter for recovery.	Recycled	Oil was vented when boilers were de-pressured. Sprayed off NW reserve pit onto snow covered tundra. No tundra damage evident. To be monitored during break up.
5/31/89	89360115102	BPXA	y	GC 1, adjacent to skids 27 & 29, contained on pad	Antifreeze	8	Vac truck pulled fluid from area, gravel removed. fluid to gc system, gravel to santa fe pad dike.	Multiple	Leakage from trash container.
7/19/89	89360120004	Dowell Schlumberger	m	Cable Shop's engine shed, south end, contained on pad	Diesel	8	Contaminated dirt and gravel removed, taken to nsb sowp.	Approved Landfill	-0-
9/24/89	89360126703	BPXA	m	POL Tank Farm, Contained in gravel on loading ramp	Diesel	8	Pooled diesel soaked up with absorbents, gravel removed with loader. sorbents to incinerator, gravel to nsb ow pit	Multiple	Locking ear on camlock fitting came loose while transferring fuel.
11/6/89	89360131006	BPXA	y	Well E-15, Contained on pad	Hydraulic oil	8	Sorbents used, snow removed with grader/bucket. sorbents incinerated, snow in lined berm at sant fe pad prior to melt tank at aew2.	Multiple	Hose failed on arctic coiled tubing.
12/10/89	89360234401	ARCO Alaska, Inc.	y	DS 12 Well 8, Contained on snow on pad	Gelled water	8	Hand shovels, absorbents used. absorbents, some snow taken to nsb incinerator.	Incinerated	Mixture 91% fresh water, 9% gel spilled when shut-off valve failed during loading and material leaked out vent.
12/12/89	89360134606	BPXA	y	Well E 10, Contained in snow on pad	Crude	8	Snow removed with loader, taken to t pad for recovery.	Recycled	Oil vented from well house to edge of pit.
1/26/90	90360102602	BPXA	y	BOC Tank Farm, Contained in snow and gravel on pad	Diesel	8	Loader removed snow, gravel, taken to t pad for recovery.	Recycled	Gasket failed on bulk tank carrier.
2/11/90	90360104206	ARCO Alaska, Inc.	y	DS 12 Manifold bldg, Contained on pad	Hydraulic oil	8	Snow, gravel removed, taken to nsb sowp.	Approved Landfill	-0-
2/12/90	90360104303	BPXA	y	C Pad Well 10, Contained in snow on pad and reserve pit	Crude	8	Snow on pad removed by loader, some removed by shovels. taken to a3w2 melt tank for recovery.	Recycled	Gas surge caused overflow of storage tank. Glycol and hydraulic leaked from trucks parked at site.
3/7/90	90360906601	ARCO Alaska, Inc.	y	DS 16 Well 2, Contained on pad	Methanol	8	Loader removed snow. melted and disposed of at pad 3.	Subsurface Injection	Leaking camlock. 60% methanol, 40% water.
3/25/90	90360908401	BPXA	y	GC 3 Skid 20, Contained on pad under skid bldg.	Antifreeze	8	Loader removed snow/gravel, taken to a3w2 melt tank for recovery.	Recycled	PSB relieved excess TEG outside skid bldg onto pad.
4/17/90	90360110702	BPXA	y	PBU-WOA Seismic Camp, Snow	Diesel	8	Shovels removed snow, snow incinerated at seismic camp.	Incinerated	Vehicle leaks from overnight parking spilled mixture diesel, antifreeze, engine oil. No ratios given.
6/2/90	90360215301	ARCO Alaska, Inc.	y	DS 13 Well 12, Contained on pad	Seawater	8	Supersucker, loader removed gravel, taken to pad 3.	Approved Landfill	Inhibited seawater (1 gal 139 to 10 BBLs seawater) spilled when union broke on hardline.
6/28/90	90360117901	BPXA	y	GC 2 Skid 8A, No enviro. damage	Crude	8	Gravel removed with shovels, sorbents used on pooled oil. gravel to arco pad 3, pads to nsb incin.	Incineration/approved Landfill	Depressurizing of flow line caused venting.
7/3/90	90360118401	Conoco	y	C Pad North End, Contained on pad	Diesel	8	Shovels removed gravel, absorbents used. taken to e pad temp storage berm.	Interim Containment	-0-

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/5/90	90360124803	BPXA	y	Pad H Well 29, Contained on pad	Crude	8	Gravel removed with loader, taken to arco pad 3.	Approved Landfill	Crude discovered on pad adjacent to well house.
9/14/90	90360125702	BPXA	y	N Pad, west of N-15, Contained on pad	Hydraulic oil	8	Absorbents used, gravel removed. sorbents to nsb incin., gravel to pad 3 sw pit.	Incineration/approved Landfill	-0-
10/20/90	90360929301	BPXA	y	GC 1, Contained on pad	Antifreeze	8	Absorbents used, gravel removed. sorbents to dumpster, gravel to pad 3.	Incineration/approved Landfill	Surge in sea water transmission.
12/4/90	90360133801	BPXA	y	G Pad, Contained on pad	Hydraulic oil	8	Material scraped and shoveled up, put in a3w2 melt tank for recovery.	Recycled	Series of projects on pad left spots of contamination.
12/5/90	90360133901	BPXA	m	603/Outside, Contained on pad	Hydraulic oil	8	Snow removed, placed in contaminated snow area.	Approved Landfill	-0-
12/22/90	90360135602	VECO	m	Truck O Yard inside shop bldg, Gravel pad	Diesel	8	Jack hammer used to remove gravel. placed in veco's contamination vessel.	Interim Containment	-0-
2/14/91	91360104501	VECO	y	Intersection Oxbow Road, PB field, Ice/snow on gravel road	Engine lube oil	8	Loader removed snow/ice. melted, skimmed. oil incin., water recycled.	Multiple	Truck engine blew.
2/23/91	91360905402	BPXA	y	E Pad Well 21, Snow on pad	Methanol	8	Snow removed by loader, taken to a3w2 melt tank.	Interim Containment	Spill discovered after well workover preparation.
3/2/91	91360906102	BPXA	y	F Pad Well 15, Contained on pad	Antifreeze	8	Snow removed with loader, taken to t pad.	Interim Containment	Discovered during routine inspection.
3/3/91	91360906203	BPXA	y	GCI Skid 326, Contained on pad	Methanol	8	Shoveled material into a3w2 snowmelter.	Interim Containment	Discovered during routine inspection.
3/10/91	91360106901	BPXA	m	Survey Team Figures, No waterways	Transmission oil	8	Snow removed, incinerated nsb.	Incinerated	-0-
3/20/91	91360107901	BPXA	y	G Pad G-26, Contained on pad	Diesel	8	Loader, shovels removed material, taken to t pad lined pit.	Interim Containment	Leak during frac job discovered during inspection.
3/20/91	91360107903	ARCO Alaska, Inc.	y	DS 18 Well 13, Snow on pad	Crude	8	Loader used. material melted, recycled fs 1.	Recycled	Valve hit during snow removal.
4/22/91	91360111207	ARCO Alaska, Inc.	y	FS 2, less than 5 x 5 snow on pad	Engine lube oil	8	Loader, shovels used. material bagged, melted, recycled in well work.	Recycled	-0-
6/24/91	91360117505	BPXA	y	F Pad skid 95, Contained on pad	Crude	8	Shovels, absorbents for gravel. sorbents to nsb incin., gravel to pad 3.	Incineration/approved Landfill	Possible loose flange connection. Found during inspection.
6/24/91	91360117506	ARCO Alaska, Inc.	y	PBOC Runway, Gravel pad	Av fuel	8	Absorbents used, taken to c pad.	Approved Landfill	On recorder.
7/11/91	91360119202	BPXA	y	Y Pad, Contained in gravel	Diesel	8	Gravel removed with loader, shovels, taken to a3w2 for cleaning.	Other	Truck fuel tank leaked diesel onto pad.
7/12/91	91360119302	BPXA	y	F Pad East side, 10 x 10 tundra	Diesel	8	Absorbents used on puddles. propane torch burned off tundra. absorbents to nsb incin., burning in progress.	Incinerated	Diesel discovered on tundra from winter's activities. Will flush, revegetate, monitor thoughout summer.
7/30/91	91360121102	BPXA	y	W Pad Module, contained on pad	Diesel	8	Shovels removed gravel, taken to t pad pit.	Approved Landfill	-0-
8/31/91	91730224301	BPXA	y	D Pad Well 27, Contained on pad	Produced water	8	Gravel removed by loader, taken to arco pad 3.	Approved Landfill	-0-
9/22/91	91730126501	ARCO Alaska, Inc.	y	FS 1, 4 x 4 gravel	Crude	8	Vac truck removed gravel, pads used. gravel washed, reused. pads incinerated nsb.	Multiple	Overflow of pig launcher draining tank.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/16/91	91730928901	BPXA	y	BOC, Contained on pad	Antifreeze	8	Material taken to a3w2 snow melter.	Interim Containment	Fluids leaked from emergency generator onto floor and through to pad.
10/19/91	91730129201	BPXA	y	H Pad Well 15, Contained on pad	Diesel	8	Absorbents used. material scraped up, bagged, put in nsb incin., gravel taken to t pad.	Incineration/approved Landfill	Drum leaking well returns.
11/19/91	91730132302	Alaska Petroleum Contractors	y	DS 3 Well 26, 10 x 10 snow on pad	Diesel	8	Scraped up snow, melted, injected at fs 1.	Subsurface Injection	Valve not closed in time, so tank ran over. 75% diesel, 25% fresh water for total volume of 10 gal.
1/14/92	92730101401	BPXA	y	F Pad Well 5, Contained in snow on pad	Hydraulic oil	8	Shovels removed snow, took to a3w2 melt tank.	Approved Landfill	Found during inspection.
2/22/92	92730905301	H.C. Price	m	Not given, Not given	Antifreeze	8	Cleanup method not given.	Not Given	-0-
5/3/92	92730912501	ARCO Alaska Inc.	y	C Pad, 5 x 5	Corrosion inhibitor	8	Shovel, loader, pads used. pads to dumpster, snow recycled.	Multiple	-0-
4/3/96	96399909401	ARCO	y	East Prudhoe Bay, DS 14 WELL 15,	Hydraulic Oil	8	Took Report, Case Closed 01-00-00		Line Failure
7/18/96	96399920001	ARCO	ym	East Prudhoe Bay SPINE ROAD,	Hydraulic Oil	8	Took Report, Case Closed 01-00-00		Line Failure
7/23/96	96399920502	ARCO	y	Prudhoe Bay Operations Center (PBOC),	Diesel	8	Took Report, Case Closed 01-00-00		Valve Failure
8/22/96	96399923501	ARCO	y	DS 13 BYPASS RD.,	Hydraulic Oil	8	Took Report, Case Closed 01-00-00		Equipment Failure
9/17/96	96399926101	VECO	y	DS 2 WELL 4,	Methyl Alcohol (Methanol)	8	Took Report, Case Closed 05-29-97		Overfill
4/9/97	97399909901	BPXA	ym	West Prudhoe Bay, BADAMI GRAVEL MINE.,	Diesel	8	Phone Follow-up, Case Closed 01-00-00		Equipment Failure
5/8/99	99399912801	BPXA	ym	West Prudhoe Bay, GC1 GAS SECTION,	Ethylene Glycol (Antifreeze)	8	Took Report, Case Closed 05-09-99		Seal Failure
5/25/99	99399914501	ARCO	y	ARCO, DS 5,	Transmission Oil	8	Took Report, Case Closed 05-30-99		Line Failure
6/4/99	99399915501	BPXA	y	West Prudhoe Bay, Well Pad G, WELL G-6,	Crude	8	Took Report, Case Closed 06-04-99		Valve Failure
3/4/00	00399906403	BPXA	y	West Prudhoe Bay, GC-1 PAD,	Diesel	8	Took Report, Case Closed 03-06-00		Seal Failure
4/29/00	00399912004	BPXA	ym	West Prudhoe Bay, Well Pad S, WELLHOUSE,	Hydraulic Oil	8	Took Report, Case Closed 05-02-00		Valve Failure
4/29/00	00399912006	PHILLIPS ALASKA INC	ym	East Prudhoe Bay, DRILLSITE 1 FLOWLINE ROAD,	Hydraulic Oil	8	Took Report, Case Closed 05-08-00		Line Failure
9/1/00	00399924503	PHILLIPS ALASKA, INC.	y	East Prudhoe Bay LPC SAND BINS,	Produced Water	8	Took Report, Case Closed 09-02-00		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/20/00	00399926401	BPXA	ym	East Prudhoe Bay, FLOW STATION 3 SKID 50 OXBOW ROA,	Hydraulic Oil	8	Took Report, Case Closed 09-23-00		Leak
9/24/00	00399926801	DOWELL SCHLUMBERGER/BPX	ym	West Prudhoe Bay, PAD B, WELL B-13,	Diesel	8	Took Report, Case Closed 09-24-00		Overfill
2/12/01	01399904302	BPXA	y	EAST NORTH SLOPE DRILL SITE 15,	Other	8	Took Report, Case Closed 02-12-01		Leak
7/10/02	02399919102	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Drill Site 4,	Diesel	8	Took Report, Final Report 07-22-02		Human Error
7/10/02	02399919103	BPXA	y	BP, GC3 PAD,	Diesel	8	Took Report, Case Closed 07-12-02		Unknown
2/9/03	03399904002	BPXA	y	Well Pad Y,	Engine Lube Oil	8	Took Report, Final Report 02-12-03		Other
4/22/03	03399911201	BPXA	y	Gathering Center (GC) 3,	Hydraulic Oil	8	Took Report, Case Closed 04-24-03		Line Failure
6/17/03	03399916801	BPXA	y	BP, Well Pad E,	Hydraulic Oil	8	Took Report, Case Closed 06-19-03		Crack
3/16/04	04399907602	ASRC Energy Ser (formerly APC)	y	Well Pad A,	Corrosion Inhibitor	8	Took Report, Case Closed 03-16-04		Equipment Failure
6/23/04	04399917501	BPXA	y	Gathering Center 2 (GC-2),	Crude	8	Took Report, Case Closed 06-24-04		Seal Failure
10/23/04	04399929701	Nana Management	y	West Prudhoe Bay, BOC,	Diesel	8	Took Report, Case Closed 10-25-04		Equipment Failure
1/15/05	05399901501	ASRC Energy Ser (formerly APC)	y	Main Construction Camp (MCC),	Hydraulic Oil	8	Took Report, Case Closed 01-18-05		Line Failure
3/1/06	06399906001	BPXA	y	VMS Building,	Engine Lube Oil	8	Took Report, Case Closed 03-04-06		External Factors
3/29/06	06399908801	BPXA	y	Well Pad G,	Hydraulic Oil	8	Took Report, Case Closed 10-09-06		Equipment Failure
6/3/06	06399915403	BPXA	y	Drill Site 6, DS-6 Unknown Crude Release	Crude	8	Took Report, Final Report 07-26-07		Line Failure
02/11/07	07399904203	VECO ALASKA INC.	y	East Prudhoe Bay, PAD 3, BP East Prudhoe Bay	Hydraulic Oil	8	Took Report, Final Report 02-21-07		Human Error
02/12/07	07399904301	PEAK OILFIELD SERVICES CO	ym	Access Road, BP East Prudhoe Bay	Hydraulic Oil	8	Took Report, Final Report 02-13-07		Line Failure
04/12/07	07399910203	ASRC Energy Services	y	West Gas Injection, BP East Prudhoe Bay	Engine Lube Oil	8	Took Report, Complaint/Report Received 04-24-07		Valve Failure
04/24/07	07399911404	BPXA	y	MCC Laydown Yard, BP East Prudhoe Bay	Other	8	Took Report, Case Closed 04-30-07		Cargo Not Secured

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
07/12/07	07399919302	BPXA	y	Drill Site 11,	Methyl Alcohol (Methanol)	7.5	Took Report, Complaint/Report Received 07-15-07		Seal Failure
07/12/07	07399919302	BPXA	y	Drill Site 11,	Source Water	7.5	Took Report, Complaint/Report Received 07-15-07		Seal Failure
12/11/80	80360134601	Sohio	y	GC 1, Skid 7, Not Given	Hydraulic oil	7	Not given.	Not Given	Entered 9-22-89 from handwritten reports.
9/3/81	81360124601	Sohio	y	GC 1, Skid 25, Not given.	Crude	7	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8 and 11-11-81.
3/31/83	83360109003	SOHIO	y	E Pad Opposite Well E 2, Unknown	Crude	7	Contaminate picked up.	Not Given	.Entered from old records 6/25/90.
6/26/83	83360117701	SOHIO	y	H Pad, Skid 54, Prudhoe, None, contained on pad.	Crude	7	Sorbents, gravel removed.	Not Given	Cause: Flange removal,not depressured. Entered from old records 6/26/90.
6/15/85	85360116601	Sohio	y	X-Pad South Pond, -0-	Diesel	7	Gravel picked up, sheen removed		Pushed off pad by accident.
8/19/85	85360123001	Sohio	y	GC-3 slod 27 area,	Crude	7	Pooled oil soaked up w/sorbents, gravel scraped up		
10/12/85	85360128502	SOHIO Alaska Petroleum Company	y	GC-2, Skid 6,	Glycol	7	Loor dry and snow used to soak up glycol		
12/7/85	85360134101	Sohio Alaska Petroleum Company	y	GC-3, -0-	Crude	7	Contaminated snow/ice scraped up		-0-
1/25/86	86360902501	Sohio Alaska Petroleum Company	y	Skid 326, -0-	Methanol	7	Mixed with snow/shoveled into open barrel	Subsurface Injection	-0-
1/29/86	86360102902	Sohio Alaska Petroleum Company	y	C - 16, Behind Well House, -0-	Crude	7	Contaminants picked up and bagged	Incinerated	-0-
6/23/86	86360117401	Sohio Alaska Petroleum Company	y	F Pad, Skid 54, -0-	Crude	7	Soaked up w/sorbents-contaminated gravel scraped	Incineration/approved Landfill	-0-
8/4/86	86360121601	Standard Alaska Production Com	y	GC-1, Skid 14, -0-	Crude	7	Soaked up with sorbents	Incinerated	-0-
9/7/86	86360125001	Standard Alaska Production Com	y	B Pad, -0-	Diesel	7	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	-0-
3/14/87	87360907301	Standard Alaska Production Com	y	GC-2, skid 12, -0-	Glycol	7	Contaminants scraped up	Incinerated	-0-

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/13/87	87360110301	Standard Alaska Production Com	y	N Pad, Skid 54,	Crude	7	Contaminants scraped up	Incinerated	
5/9/87	87360112901	Standard Alaska Production Com	y	C-Pad,	Hydraulic oil	7	Contaminants scraped up	Subsurface Injection	Hose failure.
9/3/88	88360127301	SAPC Endicott	y	Well B-19, contained on pad	Crude	7	Gravel scraped up with loader	Approved Landfill	-0-
9/10/88	88360125407	SAPC Endicott	y	Well G-16, contained on pad	Drilling muds	7	Soda ash neutralized acid, gravel scraped up	Approved Landfill	no tundra or water affected
10/1/88	88360127502	Standard Oil Production Compan	m	NW corner Module 305, on pad	Emulsion breaker	7	Sorbent pads, gravel picked up	Multiple/see Comments	pump shut off but chemical continued to siphon and overfill drum
10/1/88	88360127505	SAPC Endicott	m	NW Corner Module 305, not given	Emulsion breaker	7	Absorbent pads, gravel picked up	Multiple/see Disposal	transfer from truck to drums.Material contined to siphon after shutoff
12/31/88	88360136603	ARCO Alaska, Inc.	y	Warm Storage #19, contained on pad	Diesel	7	Absorbents on fluids, l yd gravel removed	Incineration/approved Landfill	leaking fuel tank on pickup truck
2/8/89	89360103903	ARCO Alaska, Inc.	y	DS 2, Well 14, contained on snow on pad	Hydraulic oil	7	Loader scraped up contaminated snow	Approved Landfill	hydraulic hose burst while well house safety panel being pumped up
3/1/89	89360106003	ARCO Alaska, Inc.	y	Seawater Treatment Plant, contained on pad	Antifreeze	7	Picked up, bagged, put into nsb dumpster. some taken into facility and melted into module sump drains.	Multiple/see Disposal	cooling system radiator boiled over onto generator
4/15/89	89360110502	BPXA	y	BOC Fuel pumps, contained on pad	Gasoline	7	Contaminated snow scraped up with loader, taken to nsb incinerator	Incinerated	Contractor fueling truck put nozzle on automatic fill. It continued to flow when tank was full.
5/26/89	89360114601	ARCO Alaska, Inc.	y	PBOC Maintenance parking area, gravel pad	Hydraulic oil	7	Sorbents and hand shovels to remove contaminated snow. sorbents to nsb incinerator, snow to melter, fs 1 recycle.	Recycled	-0-
6/23/89	89360117405	ARCO Alaska, Inc.	y	DS 2, Well 5, Contained on gravel pad.	Diesel	7	Absorbents used, gravel scraped up by loader. sorbents taken to nsb incinerator, gravel to solid ow pad.	Multiple	Diesel/seawater, 50-50 mixture sprayed from tank relief valve caused by gas bubble.
9/2/89	89360124501	ARCO Alaska, Inc.	y	DS L4, Well 31, Water puddles atop gravel pad	Crude	7	Absorbents used, taken to nsb incinerator.	Incinerated	50% diesel, 50% crude leaked from hose during transfer caused by not properly draining hoses.
10/10/89	89360128305	BPXA	y	N Pad, skid 54, 50 sq ft tundra	Crude	7	Crude shoveled up, bagged. gravel placed in holding tank for disposal at nsb owp.	Multiple	Hose uncoupled from tiger tank before it had been drained.
10/17/89	89360129002	BPXA	y	BOC Fuel Pumps, Not given	Gasoline	7	Absorbents used, taken to nsb incinerator.	Incinerated	No tundra or waterways affected.
12/23/89	89360135701	ARCO Alaska, Inc.	y	DS 9 Well 24, Contained on pad.	Diesel	7	Loader removed snow.	Approved Landfill	Seawater spilled from line leak due to corrosion. Final changed qty from 15 seawater, 5 diesel to 23 seawater, 7 diesel.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/1/90	90360100101	BPXA	y	BOC fuel pumps, Contained in snow and gravel on pad.	Gasoline	7	Loader scraped up snow, taken to t pad sowp for recovery.	Recycled	No tundra or water affected. Visual inspection revealed no further evidence of contamination.
1/19/90	90360101902	BPXA	y	CGF Pipeline, Contained on pad	Hydraulic oil	7	Absorbents used, taken to nsb incinerator.	Incinerated	Spill report open as BPX has not yet inspected site. Final to be done 1-22-90.
2/11/90	90360104201	BPXA	y	X Pad Well 19, Contained in snow on pad	Crude	7	Loader and grader removed snow. taken to t pad pit for recovery.	Recycled	Pack off seal failed to hold oil under pressure, allowing oil to vent onto pad.
5/3/90	90360112304	BPXA	y	GC 3 Skid 7, Snow and gravel on pad	Diesel	7	Snow, gravel taken to a3w2 for recovery.	Recycled	Valve on sight gass gauge failed to open, giving false reading, causing tank overflow.
5/4/90	90360112403	ARCO Alaska, Inc.	y	Pad 13, Contained on pad	Crude	7	Snow removed, melted, injected pad 3.	Subsurface Injection	Discovered during inspection.
6/14/90	90360916501	Princess Tours	y	West Side ARCO main construction, Gravel pad	Antifreeze	7	Caught in buckets. absorbents used, gravel removed. pads to nsb burnable dumpster, arco will dispose of gravel and buckets of coolant.	Multiple	-0-
7/21/90	90360120203	BPXA	m	Annex 1 bullrail next to spine rd., Contained on pad	Hydraulic oil	7	Absorbents used, taken to nsb incin.	Incinerated	-0-
8/25/90	90360123702	BPXA	y	G Pad Well 11, Contained on pad	Diesel	7	Gravel removed, taken to arco pad 3.	Approved Landfill	Located during routine pad inspection.
9/3/90	90360124602	BPXA	y	GC 3 Skid 301, Contained on pad	Diesel	7	Loader removed gravel. taken to a3w2 for cleaning.	Other	Compressor refueled on slope, leaked.
9/7/90	90360125001	ARCO Alaska, Inc.	y	DS 3 Well 9, Contained on pad	Crude	7	Super sucker removed 1 cu yd gravel, taken to pad 3 sowp.	Approved Landfill	Missing hatch gasket on truck.
11/18/90	90360232201	Alaska Petroleum Contractors	y	DS 23, Snow on gravel pad	Seawater	7	Shoveled snow, bagged, put in open top melter. injected pad 3.	Subsurface Injection	Overfilled slop trailer.
2/21/91	91360105201	BPXA	y	Y Pad Well 14, Contained snow/gravel under rig	Hydraulic oil	7	Snow removed with shovels, taken to a3w2 melt tank.	Interim Containment	Contractor: Camco.
3/30/91	91360108901	BPXA	m	Various survey locations, No waters	Transmission oil	7	As much of contaminated snow removed as practical, incinerated nsb.	Incinerated	Equipment leaks and sloppy waste oil burning procedures
6/14/91	91360216501	Alaska Petroleum Contractors	y	DS 2 Well 3, 10 x 1 strip of gravel	Other	7	Super sucker used.pad 3 disposal pit.	Approved Landfill	Water gel/small amt. cement spilled from loose hatch on top of truck.
6/23/91	91360117406	BPXA	y	F Pad near mini skid, Contained on pad	Hydraulic oil	7	Loader, shovels removed contaminants, took to pad 3.	Approved Landfill	-0-
7/7/91	91360918802	BPXA	y	GC1 Skid 16, Contained on pad	Antifreeze	7	Shovels used, gravel removed. gravel to arco pad 3.	Approved Landfill	Ruptured heating coil inside tiger tank.
7/23/91	91360120401	BPXA	y	R Pad R-1, Contained on pad	Crude	7	Absorbents used. loader removed gravel and took to arco pad 3. sorbents incin. nsb.	Incineration/approved Landfill	Hole on inlet of pipe allowed crude to spray out.
7/31/91	91360121204	ARCO Alaska, Inc.	y	DS 13 Wells 5, 6 and 7, 10 x 20 gravel pad	Crude	7	Super sucker removed gravel, took to pad 3 sowp.	Approved Landfill	Choke valve on well 7 left open spilling 75% crude, 25% seawater for total of 10 gal.
1/9/92	92730100902	BPXA	y	Y pad Well 29, Contained on pad	Diesel	7	Material removed by shovel, bagged, put in frac tank for re-use in well work.	Recycled	-0-

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/14/95	95399910501	BPXA	y	West Prudhoe Bay, K PAD WELL 7,	Hydraulic Oil	7	Took Report, Case Closed 01-00-00		Line Failure
7/7/95	95399918801	NORCON, INC./VECO EQUIP.	y	Drill Site 18,	Hydraulic Oil	7	Took Report, Case Closed 01-00-00		Seal Failure
3/24/96	96399908401	ARCO	y	Lisburne Production Center (LPC),	Produced Water	7	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
11/1/96	96399930603	BPXA	y	Well Pad C,	Methyl Alcohol (Methanol)	7	Phone Follow-up, Case Closed 11-27-98		Seal Failure
11/6/96	96399931101	BPXA	y	MOWF STORES,	Diesel	7	Took Report, Case Closed 01-00-00		Valve Failure
3/10/97	97399906903	BPXA	y	West Prudhoe Bay, K PAD,	Hydraulic Oil	7	Took Report, Case Closed 01-00-00		Seal Failure
5/2/97	97399912201	SCHLUMBERGER WELL SERVICES.	ym	West Prudhoe Bay, SCHLUMBERGER WELL SERVICES.,	Ethylene Glycol (Antifreeze)	7	Phone Follow-up, Case Closed 01-00-00		Puncture
4/4/98	98399909401	B.P.	y	West North Slope, B.P. Well Pad U.,	Hydraulic Oil	7	Took Report, Case Closed 04-13-98		Valve Failure
4/4/98	98399909402	DOWELL SCHLUMBERGER	y	EAST NORTH SLOPE, DOWELL SCHLUMBERGER/ARCO DS 15.,	Hydraulic Oil	7	Took Report, Case Closed 01-00-00		Leak
4/28/98	98399911801	DOWELL COIL TUBING	ym	EAST NORTH SLOPE, DOWELL/ARCO COIL TUBING UNIT DS,	Methyl Alcohol (Methanol)	7	Took Report, Case Closed 05-30-98		Leak
6/4/99	99399915502	ARCO	y	EAST NORTH SLOPE, ARCO, FS3,	Ethylene Glycol (Antifreeze)	7	Took Report, Case Closed 06-06-99		Leak
7/10/99	99399919102	DOWELL SCHLUMBERGER	ym	East Prudhoe Bay, DRILLSITE 2 WELL 10,	Crude	7	Took Report, Complaint/Report Received 07-12-99		Line Failure
7/24/99	99399920501	BPXA	y	West Prudhoe Bay, BP, Well Pad W,	Hydraulic Oil	7	Took Report, Case Closed 08-12-99		Other
7/8/00	00399919001	NANA OILFIELD SERVICES	ym	West Prudhoe Bay WEST DOCK, DOCK #3,	Diesel	7	Took Report, Case Closed 07-15-01		Leak
7/23/00	00399920501	NABORS DRILLING/BP EXPLORATION	y	West Prudhoe Bay, Well Pad A,	Hydraulic Oil	7	Took Report, Case Closed 07-24-00		Line Failure
8/10/01	01399922203	PEAK OILFIELD SERVICES	y	Drill Site 9 (DS-9),	Diesel	7	Took Report, Case Closed 08-10-01		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/24/01	01399923601	BPXA	y	East Prudhoe Bay, LISBURNE PRODUCTION CENTER,	Hydraulic Oil	7	Took Report, Case Closed 08-25-01		Vehicle Leak, All
5/19/02	02399913901	BPXA	y	Well Pad K,	Hydraulic Oil	7	Took Report, Final Report 05-20-02		Seal Failure
3/15/03	03399907401	ALASKA PETROLEUM CONTRACTORS	y	Well Pad C,	Hydraulic Oil	7	Took Report, Final Report 03-17-03		Line Failure
5/2/03	03399912202	BPXA	y	West Gas Injection,	Hydraulic Oil	7	Took Report, Case Closed 05-05-03		Line Failure
5/7/03	03399912701	BPXA	y	Drill Site 9 (DS-9),	Hydraulic Oil	7	Took Report, Case Closed 05-08-03		Equipment Failure
5/10/03	03399913001	BPXA	y	West Prudhoe Bay SPINE RD,	Glycol, Other	7	Phone Follow-up, Case Closed 05-22-03		Vehicle Leak, All
4/7/05	05399909701	BPXA	y	Drill Site 18,	Hydraulic Oil	7	Took Report, Case Closed 04-10-05		Seal Failure
12/2/05	05399933601	BPXA	y	West Prudhoe Bay SPINE RD,	Engine Lube Oil	7	Took Report, Case Closed 12-05-05		Equipment Failure
6/4/06	06399915501	BPXA	y	Seawater Treatment Plant (STP),	Other	7	Took Report, Case Closed 10-09-06		Valve Failure
9/4/06	06399924702	BPXA	y	Well Pad Q,	Crude	7	Took Report, Case Closed 09-05-06		Human Error
9/4/06	06399924704	BPXA	y	FLEET SHOP,	Hydraulic Oil	7	Took Report, Case Closed 09-07-06		Line Failure
02/05/07	07399903604	NABORS DRILLING	y	Well Pad W, BP West Prudhoe Bay	Drilling Muds	7	Took Report, Complaint/Report Received 02-07-07		Other
3/25/87	87360108402	VECO,Inc.	y	ARCO Oily Waste Injection Fac.,	Water 98%, crude 2%	6	Vacuumed liquid-scraped up contaminants	Subsurface Injection	
9/14/88	88360125808	SAPC Endicott	y	Well B-19, contained on pad	Diesel	6	Gravel scraped up with loader	Approved Landfill	
10/7/88	88360128103	ARCO Alaska, Inc.	y	DS 2, contained on pad	Gelled water	6	Used shovels to pick up snow	Approved Landfill	5 gallon XCD gelled water and 1 gallon diesel/break in tubing injector
12/26/88	88360136105	SAPC Endicott	y	Well B-7, contained on pad	Hydraulic oil	6	Material scraped up, removed	Recycled	faulty filter casing caused blown oil filter
12/29/88	88360136403	SAPC Endicott	y	Well R-6, contained on pad	Crude	6	Contaminated snow removed. method not given	Recycled	oil escaped through annulus bleed valve
3/27/89	89360108604	BPXA	y	B Pad, None. All contained in snow on pad	Antifreeze	6	Contaminated snow scraped up with loader. taken to snow melter for recovery.	Recycled	Double wheeled unit ran over drip pan on pad.
6/12/89	89360116301	ARCO Alaska, Inc.	y	ARCO COTU fuel dock, contained on pad	Diesel	6	Absorbents used, gravel picked up by loader. sorbents to nsb incinerator, gravel to pad 3 when temp storage built.	Multiple	Fuel released while refueling vehicle.
6/13/89	89360116401	ARCO Alaska, Inc.	y	L4 Module 4934, Contained on pad	Hydraulic oil	6	Absorbents used, gravel picked up. sorbents to nsb incinerator, gravel to pad 3 when temp storage built.	Multiple	Mechanical failure of water truck.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/13/89	89360116403	BPXA	y	X Pad, Well 6, contained on pad	Diesel	6	Absorbents used, gravel removed by loader. sorbents to incinerator, gravel to a3w2	Multiple	
8/16/89	89360922801	Halliburton Services	y	DS 3, Well 8, gravel	Acid	6	Neutralized with soda ash, soaked up xylene with absorbents, gravel removed. gravel to halliburton owp, sorbents in storage containers.	Multiple	Mixture 15% hydrochloric, 10% xylene, 75% water. Overflow of tub in pumping unit. Copy of spill to Cormack.
8/23/89	89360123505	ARCO Alaska, Inc.	y	DS 5, Nabors Drilling Rig 28 E, contained on pad	Diesel	6	Gravel bladed into pad with grader.	Padspread	Spilled from fuel line during refueling.
8/24/89	89360123604	ARCO Alaska, Inc.	y	ARCO Fuel Terminal, contained on pad	Diesel	6	Absorbents used, gravel removed. taken to nsb sowp	Approved Landfill	Nozzle fell out of tank during filling.
10/26/89	89360129901	ARCO Alaska, Inc.	y	DS L4, Well 2, Contained on pad	Diesel	6	Absorbents used, hand shovels, no gravel needed to be removed. absorbents taken to nsb incinerator.	Incinerated	During drilling, hose came loose.
11/3/89	89360130702	ARCO Alaska, Inc.	y	DS 9 Well 10, Contained on pad.	Unknown	6	Sorbents used, incinerated; gravel taken to nsb landfill.	Incineration/approved Landfill	Ball valve on section line from reservoir tank to pump failed.
1/19/90	90360101901	Cold Weather Contractors	y	Oily Waste Facility sump, Contained in sump	Other	6	Vacuumed up, reinjected at oily waste facility.	Subsurface Injection	99% fresh water, trace of diesel, motor oil, hydraulic for a total volume of 630 gallons. Called in to recorder. 1-22-90 called by Bob Lupchek of ARCO who said spill could be deleted as it was contained in the sump and not required reporting.
2/11/90	90360904201	BPXA	y	W Pad Well 27, Contained in snow on pad	Methanol	6	Sorbents used, snow removed with shovels and loader. sorbents to nsb incinerator, snow to a3w2 melt tank for recovery.	Multiple	Suspected packing seal leak on coiled tubing unit.
3/19/90	90360107801	ARCO Alaska, Inc.	y	DS 1 Well 7, Contained on pad	Crude	6	Absorbents, shovels used. will melt down, re-vacuum up, take to pad 3 for injection.	Subsurface Injection	Vac truck lost suction, material drained out. 70% water, 30% crude, total volume 20 gal.
3/30/90	90360108901	ARCO Alaska, Inc.	y	Spine Rd near ARCO Hot Water Plant & again at intersect. of DS 3., 1'x3' and 1'x50' at intersection	Diesel	6	Loader to pick up, will take to open top tank, melt and recycle at fs 1.	Recycled	Sloshed out of tank top (hatch).
5/13/90	90360113301	ARCO Alaska, Inc.	y	FS 1, Contained on pad	Hydraulic oil	6	Absorbents used, taken to nsb incinerator.	Incinerated	Seal failure on truck.
7/31/90	90360121201	ARCO Alaska, Inc.	y	DS 5 Well 3, Contained on pad	Diesel	6	Loader removed 2 cu. yds gravel, took to pad 3 sw pit.	Approved Landfill	
7/31/90	90360121202	ARCO Alaska, Inc.	y	DS 5 Well 3, Contained on pad	Diesel	6	Loader removed gravel, taken to pad 3.	Approved Landfill	
9/26/90	90360126901	BPXA	y	R Pad Well 9, Contained on pad	Crude	6	Gravel removed, taken to arco pad 3.	Approved Landfill	Crude/diesel leaked from under mixing trailer.
1/9/91	91360100903	Colville	y	ARCO COTU, 2 cu ft snow	Diesel	6	Absorbents used, snow removed. incin. nsb sa-10.	Incinerated	Inaccurate loading meter caused overflow of tank.
2/11/91	91360104203	ARCO Alaska, Inc.	y	LGI Well 4, Snow on gravel	Crude	6	Handshovels removed snow/ice, taken to pad 3 for injection.	Subsurface Injection	Ice plug prevented valve closure.
2/13/91	91360104401	Conoco	y	L Pad East side, 30 sq ft on pad	Crude	6	Loader removed material, placed in temp storage berm.	Interim Containment	Vac truck overpressured.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/19/91	91360105002	BPXA	y	Spine Rd near N Pad, Contained on road	Diesel	6	Absorbents used, loader removed snow. sorbents to nsb incin., snow to a3w2 tank.	Multiple	Strap broke, fuel tank fell off truck and line broke.
3/19/91	91360107802	BPXA	y	M Pad, Snow on pad	Crude	6	Snow removed by loader, taken to t pad pit.	Interim Containment	Crude spots discovered near well houses during inspection.
3/28/91	91360108703	BPXA	m	Various survey locations, No waters	Engine lube oil	6	As much of contaminated snow removed as practical, incinerated nsb.	Incinerated	Equipment leaks and sloppy waste oil burning procedures
5/21/91	91360114101	Camco Wireline	y	B Pad Well 17, Snow on pad	Crude	6	Loader, shovels removed snow. taken to a3w2 melter for recovery.	Recycled	Operator failed to close vent in time. Initial spill reported by BP Ex. Final from Camco.
5/29/91	91360114907	ARCO Alaska, Inc.	y	Seawater Injection Plant, Contained on pad	Diesel	6	Absorbents, vac truck used. liquids injected pad 10, gravel to pad 3 swp, absorbents to nsb.	Multiple	126 gal., 5% diesel, 95% reserve pit water.
7/3/91	91360118401	BPXA	y	BOC, Contained on pad	Diesel	6	Shovels used, material put in t pad pit.	Interim Containment	Because of its exposure to air, they had basically discolored gravel without remaining light ends. Leak from meter connection had been for undetermined time.
7/3/91	91360118403	BPXA	y	P Pad Well 15, Gravel	Diesel	6	Gravel shoveled into bags, taken to arco pad 3.	Approved Landfill	Barrel of diesel used by unknown as source container. Previous transfers of product spilled.
7/15/91	91360119602	BPXA	y	S Pad Module 57, Contained on pad	Crude	6	Gravel removed with shovels, taken to t pad pit.	Approved Landfill	Leak from flange at connection.
10/15/91	91730928801	Alaska Petroleum Contractors	y	J Pad, 3 x 3	Methanol	6	Shovels removed material, melted, pumped into flow line for recycle.	Recycled	Trailer overfilled.
12/16/91	91730135002	BPXA	y	E Pad Well 9, Snow/ice on pad	Crude	6	Grader/loader removed snow. taken to t pad.	Approved Landfill	Frozen blockage in drain line.
2/22/92	92730105304	BPXA	y	F Pad Well 43, contained on snow/ice on pad	Crude	6	Snow/ice removed by loader, taken to t pad.	Approved Landfill	Sight glass removed during rig-down operation.
2/27/92	92730105801	BPXA	m	Remote location, Unknown	Transmission oil	6	Snow removed. taken to nsb incinerator.	Incinerated	
8/29/95	95399924101	ARCO ALASKA INC.	y	East Prudhoe Bay, PAD 9,	Hydraulic Oil	6	Took Report, Case Closed 01-00-00		Line Failure
3/11/96	96399907101	B.J. SERVICES	ym	DEADHORSE, SPINE ROAD,	Diesel	6	Phone Follow-up, Case Closed 01-00-00		Other
3/15/96	96399907503	BPXA	y	West Prudhoe Bay M PAD,	Hydraulic Oil	6	Took Report, Case Closed 01-00-00		Leak
6/1/96	96399915303	ARCO	y	Drill Site 1 (DS-1),	Crude	6	Took Report, Case Closed 01-00-00		Seal Failure
12/2/96	96399933702	NANA MARRIOT	y	DS L 5,	Hydraulic Oil	6	Took Report, Case Closed 01-00-00		Rollover/Capsize
1/20/97	97399902001	ARCO	y	East Prudhoe Bay, CCP,	Hydraulic Oil	6	Took Report, Case Closed 01-20-97		Leak
1/20/97	97399902003	ARCO	y	East Prudhoe Bay, PIPELINE RD.,	Hydraulic Oil	6	Took Report, Case Closed 01-00-00		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/19/97	97399913901	BPXA	y	West North Slope, Well Pad D., Well Pad D Contamination	Diesel	6	Field Visit/s, Case Closed Transferred To CSITES 12-03-01		Unknown
5/21/98	98399914101	ARCO	y	EAST NORTH SLOPE, ARCO STP.,	Diesel	6	Took Report, Case Closed 01-00-00		Overfill
4/15/99	99399910501	BPXA	y	East Prudhoe Bay, Well Pad K, WELLHOUSE K-16,	Hydraulic Oil	6	Took Report, Case Closed 06-01-99		Seal Failure
8/31/99	99399924301	ARCO	y	ARCO, EOA, CGF MODULE 4957,	Ethylene Glycol (Antifreeze)	6	Took Report, Case Closed 09-10-99		Leak
1/31/00	00399903204	BPXA	ym	West Prudhoe Bay, WEST BEACH STAGING AREA WB PAD,	Calcium Chloride (Solid)	6	Took Report, Complaint/Report Received 02-07-00		Puncture
7/10/00	00399919203	BPXA	y	West Prudhoe Bay, Well Pad W-36,	Diesel	6	Took Report, Case Closed 07-18-00		Leak
8/20/00	00399923302	BPXA	ym	West Prudhoe Bay, DINING ROOM OF PERMANENT LIVING,	Freon (Dichlorodifluoromethane All Types)	6	Took Report, Case Closed 08-23-00		Human Error
9/10/00	00399925401	PHILLIPS/GREAT NW CO/BPX	ym	West Prudhoe Bay, M-PAD/SPINE RD STORAGE PILE,	Hydraulic Oil	6	Took Report, Case Closed 09-11-00		Line Failure
4/10/01	01399910001	DOWELL SCHLUMBERGER/BPX ALASKA	ym	EAST NORTH SLOPE, ENDICOTT WELL ROW 1, WELL 47,	Methyl Alcohol (Methanol)	6	Took Report, Case Closed 04-13-01		Human Error
7/12/01	01399919302	VECO ALASKA/ BPX	ym	East Prudhoe Bay DRILL SITE MAINTINENCE,	Seawater	6	Took Report, Case Closed 07-20-01		Leak
11/9/01	01399919302	BPXA	y	West Prudhoe Bay Well Pad S,	Diesel	6	Took Report, Case Closed 07-20-01		Corrosion
11/11/02	02399931502	BPXA	y	CPS Maintenance/Central Skid,	Sulfuric Acid	6	Took Report, Final Report 11-13-02		Cargo Not Secured
12/2/02	02399933601	PEAK OILFIELD SER/BP EXPLORATION	y	DS 3,	Hydraulic Oil	6	Took Report, Final Report 12-16-02		Line Failure
12/6/02	02399934002	BPXA	y	DS 16,	Produced Water	6	Took Report, Final Report 12-09-02		Corrosion
2/6/03	03399903701	VECO ALASKA, INC.	y	West Prudhoe Bay, B.P. BOC PAD.,	Diesel	6	Phone Follow-up, Case Closed 02-10-03		Line Failure
5/2/03	03399912201	BPXA	y	Gathering Center 2 (GC-2),	Glycol, Other	6	Took Report, Case Closed 05-05-03		Line Failure
6/3/03	03399915401	BPXA	y	Well Pad C,	Crude	6	Took Report, Case Closed 06-03-03		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/23/03	03399917401	BPXA	y	U 21 (EQA BLDG),	Engine Lube Oil	6	Phone Follow-up, Case Closed 07-02-03		Other
10/7/03	03399928001	BPXA	y	L Pad (Steamer Pad),	Hydraulic Oil	6	Took Report, Case Closed 10-09-03		Seal Failure
5/4/04	04399912501	BPXA	y	Drill Site Maintenance,	Calcium Chloride (Solid)	6	Phone Follow-up, Case Closed 05-10-04		Cargo Not Secured
1/19/05	05399901901	BPXA	y	Drill Site 12,	Transmission Oil	6	Took Report, Case Closed 01-25-05		Equipment Failure
8/8/05	05399922002	ASCI	y	c Pad, C-Pad Hydrochloric Acid spill	Other	6	Phone Follow-up, Case Closed 08-10-05		Unknown
12/5/05	05399933901	BPXA	y	Point McIntyre #1,	Corrosion Inhibitor	6	Field Visit/s, Case Closed 12-27-05		Erosion
3/30/06	06399908904	BPXA	y	Seawater Treatment Plant (STP), Seawater Treatment Plant Oxygen Scavenger Leak	Other	6	Field Visit/s, Case Closed 06-26-06		Corrosion
5/9/06	06399912901	FAIRWEATHER, INC.	ym	Fairweather Tool Service Building, WOA Tool Service Building	Hydraulic Oil	6	Took Report, Case Closed 05-10-06		Line Failure
6/13/06	06399916402	BPXA	y	Seawater Treatment Plant (STP),	Other	6	Phone Follow-up, Case Closed 06-19-06		Valve Failure
11/19/06	06399932302	BPXA	y	Main Construction Camp (MCC),	Diesel	6	Took Report, Case Closed 11-21-06		Crack
12/11/06	06399934501	ASRC Energy Services	y	Drill Site 4,	Diesel	6	Phone Follow-up, Case Closed 12-18-06		Human Error
01/14/07	07399901401	ASRC Energy Services	y	MOWF STORES,	Hydraulic Oil	6	Took Report, Case Closed 01-16-07		Cargo Not Secured
8/20/75	75360123201	ARCO Alaska, Inc.	y	ARCO Prudhoe Bay airstrip, Gravel pad	Av fuel	5	Gravel removed, placed on road where arco has oiling permit.	Padspread	Pilot laid nozzle on ground then walked 40 ft away to turn on pump. Entered from old records 4-12-91.
1/21/81	81360102103	Sohio	y	GC 2, Skid 20 Prudhoe, Not Given.	Condensate	5	Not given.	Not Given	Entered 9-25-89 from old records.
2/4/81	81360103501	Sohio	y	F Pad, Not given.	Diesel	5	Not given.	Not Given	Entered 9-26-89 from old records.
2/4/81	81360103502	Sohio	y	F Pad, Not given.	Diesel	5	Not given.	Not Given	Entered 9-26-89 from old records. Follow up 3-6-81.
2/5/81	81360103602	Sohio	y	CPS Pad, Not given.	Engine lube oil	5	Not given.	Not Given	Entered 9-26-89 from old records. Follow up 2-13 and 3-6-81.
2/6/81	81360103701	Sohio	y	GC 2, Skid 25, Not given.	Crude	5	Not given.	Not Given	Entered 9-26-89 from old records.
2/6/81	81360103703	Sohio	y	CPS Pad, Prudhoe, Not given.	Engine lube oil	5	Not given.	Not Given	Entered 9-26-89 from old records.
2/15/81	81360104601	Sohio	y	F Pad, Skid 54, Not given.	Crude	5	Not given.	Not Given	Entered 9-26-89 from old records. Follow up 3-2 and 3-6-81.
3/9/81	81360106801	Sohio	y	GC 1, Skid 40, PBF, Not given.	Crude	5	Not given.	Not Given	Entered 9-27-89 from old records. Mixture crude/condensate.
3/24/81	81360108301	Sohio	y	GC-1 Fuelage tanks T103-101 Dike, Not given.	Crude	5	Not given.	Not Given	Entered 9-28-89 from old records.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/4/81	81360109403	ARCO Alaska, Inc.	y	E. Dock Warehouse Prudhoe, Snow under storage rack	Other	5	Snow removed, taken to pingut pit.	Approved Landfill	Entered 10-24-89 from old records. Product Ideal Plus Oil.
5/1/81	81360112102	ARCO Alaska, Inc.	y	FS 3, Not given.	Diesel	5	Absorbents used, gravel removed. taken to landfill and incinerator.	Incineration/approved Landfill	Entered 10-26-89 from old records. Follow up date 5-7-81. Also lists file# 300.02.022. ARCO project/A.I.C.
6/21/81	81360117201	Sohio	y	GC 2, Skid 6, Prudhoe, Not given.	Crude	5	Not given.	Not Given	Entered 10-27-89 from old records. Follow up 7-7 and 9-9-81.
6/22/81	81360117303	Sohio	y	G Pad, Rig 22 E, Prudhoe, Not given.	Diesel	5	Not given.	Not Given	Entered 10-27-89 from old records. Follow up 7-7 and 9-9-81.
8/10/81	81360122202	Sohio	y	M Pad, Prudhoe, Not given.	Diesel	5	Not given.	Not Given	Entered 10-31-89 from old records. Follow up 9-2 and 10-5-81. Product emulsified diesel.
8/14/81	81360122601	Sohio	y	X Pad under flow lines, west of pad, Not given.	Crude	5	Not given.	Not Given	Entered 11-2-89 from old records. Follow up 9-2 and 10-5-81.
8/26/81	81360123802	Sohio	y	A1 A Pad, Prudhoe, Not given	Diesel	5	Not given.	Not Given	Entered 11-2-89 from old records. Follow up 9-2 and 11-12-81.
11/18/81	81360132202	Sohio	y	Well A 18, Not given	Hydraulic oil	5	Not given	Not Given	Entered 2-16-90 from old records. Final dates 12-2 and 12-8-81.
11/22/81	81360132601	Sohio	y	GC 3 Prudhoe, Not given	Diesel	5	Not given	Not Given	Entered 2-16-90 from old records. Follow up date 12-2-81.
12/29/81	81360136301	Sohio	y	Construction camp #1, Not given	Hydraulic oil	5	Not given	Not Given	Entered 2-21-90 from old records.
1/21/82	82360102102	SOHIO	y	Central Water Treatment Fac., Unknown	Diesel	5	Not given	Not Given	Entered from old records 7/31/90.
5/9/82	82360912901	ARCO Alaska, Inc.	y	Central Compressor Plant-Prudhoe Bay, Remained on gravel pad and snow.	Antifreeze	5	Snow absorbed the glycol-snow taken to nsb landfill.	Approved Landfill	False low level in sight glass on expansion tank caused over filling. Entered from old records 4-28-90.
1/3/83	83360100301	SOHIO	y	Skid 32, GC-2, PBF, Contained on pad.	Diesel	5	Snow p/u w/ bucket.	Unknown	Entered 4/7/90 from old records. Cause: Overflow of fire water pump.
1/6/83	83360100602	SOHIO	y	GC 2, Skid 2, PBF,	Crude	5	Oil and snow bagged.	Incinerated	Entered 5/7/90 from old records.
2/14/83	83360104501	SOHIO	y	NW Corner X Pad, Unknown	Hydraulic oil	5	Sorbents; disposed nsb incinerator.	Incinerated	O Ring Failure.Entered from old records 6/16/90.
3/17/83	83360107602	SOHIO	y	N-Pad, Skid 56, Unknown	Crude	5	N-pad reserve pit	Not Given	Entered from old records 6/20/90.
4/19/83	83360110901	SOHIO	y	T Pad, Contained	Engine lube oil	5	Contaminants into bags. disposal at future date.	Interim Containment	Cause: During servicing operations. Entered from old records 6/25/90.
5/16/83	83360113602	SOHIO	y	BOC Pad, Vehicle parking, Contained on pad.	Engine lube oil	5	Contaminants picked up.	Incinerated	Cause: Loose oil filter. Incinerated at NS Borough incinerator. Entered from old records 6/25/90.
8/10/83	83360122201	SOHIO	y	E Pad, None, contained on pad.	Crude	5	Scraped up w/ shovels. disposal in e pad reserve pit.	Other	Entered from old records 7/5/90.
8/18/83	83360123001	SOHIO	y	Construction Camp 3, 5' x 10' area of tundra.	Other	5	Sorbents, puddles skimmed. contaminants burned.	Incinerated	Entered from old records 7/5/90. Type: Oil based paint.
10/25/83	83360129802	SOHIO	y	F Pad, Prudhoe, None	Crude	5	Shoveled	Unknown	Cause: Leaking flange. Entered from old records 7/10/90.
11/13/83	83360931701	SOHIO	y	GC-3, Skid 31, Unknown	Emulsion breaker	5	Sorbents	Not Given	entered from old records 7/26/90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/11/85	85360107005	ARCO Alaska, Inc.	y	DS#5, Prudhoe Bay,	Emulsion breaker	5	Sorbents	Incinerated	
3/16/85	85360107502	Texaco	m	Ice Road,	Diesel	5	Contaminated snow & ice chipped up		
3/17/85	85360107603	Sohio	y	GC-1 Skid 20,	Condensate	5	Frontend loader scraped up con. material		
5/2/85	85360112202	Sohio	y	SAG DELTA-1,	Heavy grease	5	Snow scraped up with shovels		
5/18/85	85360113804	Sohio	m	100 yds east of west check pt.,	Diesel	5	Sorbents		
5/18/85	85360113805	Sohio	y	F-19,	Diesel	5	Contaminants were removed		
9/29/85	85360127201	Sohio N/S	y	N-pad Skid 56,	Emulsion breaker	5	Soaked up with absorbent pads		
11/10/85	85360131401	ARCO Alaska, Inc.	y	C Pad, Containment Pit/Prudhoe,	Engine lube oil	5	Scooped up snow/soaked up fluid with absorbent pad		
2/24/86	86360905501	Sohio Alaska Petroleum Company	y	N-Pad access road,	Glycol	5	Scraped up contaminated materials		
3/21/86	86360108001	Sohio Alaska Petroleum Company	y	X-Pad Wells 14, 12, 9,	Diesel	5	Scraped up contaminated materials	Interim Containment	
6/19/86	86360917001	ARCO Alaska, Inc.	y	DS L5,	Battery acid	5	Ceutralized with caustic soda/lime	Reserve Pit At L5	
8/24/86	86360123601	Standard Alaska Production Com	y	GC-II, Skid 5,	Crude	5	Contaminated gravel scraped up	Taken To F-pad For Recovery	Cause: Shut down for maintenance work.
8/31/86	86360124301	ARCO Alaska, Inc.	y	ARCO Airstrip/Prudhoe Bay,	Diesel	5	Soaked w/sorbents-contaminated gravel scraped up	Multiple/see Comments	Pads incinerated-gravel bladed into road
9/29/86	86360127201	Standard Alaska Production Com	y	GC-1, skid 20,	Crude	5	Scraped up contaminated snow and gravel	Interim Containment	
11/4/86	86360130803	ARCO Alaska, Inc.	y	Near DS 6,	Hydraulic oil	5	Contaminated snow shoveled up	Approved Landfill	
12/6/86	86360134001	Standard Alaska Production Com	y	Skid 50,	Crude	5	Scraped up contaminated snow/soaked up w/sorbents	Incinerated	
12/31/86	86360936501	ARCO Alaska, Inc.	y	Lisburne Production Center,	Emulsion breaker	5	Contaminants scraped up	Interim Containment	Initial report called into Zenith 9300 - not received at this office.
2/26/87	87360105701	Standard Alaska Production Com	y	GC-3, Skid 25,	Crude	5	Contaminants scraped up	Incinerated	
3/5/87	87360106402	ARCO Alaska, Inc.	y	MCC Pad Gas Station,	Gasoline	5	Scraped up contaminants	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/6/87	87360106502	ARCO Alaska, Inc.	m	Jet Fuel Depot, Prudhoe Bay,	Jp 4	5	Scraped up contaminants	Recycled	Product JP 4.
3/7/87	87360106601	ARCO Alaska, Inc.	y	North Gas Injection Pad,	Condensate	5	Cleaned up sheen	Interim Containment	
4/18/87	87360110801	ARCO Alaska, Inc.	y	Crude Oil topping Plant CPF 1,	Crude	5	Soaked up w/sorbents-contaminants scraped up	Approved Landfill	
5/26/87	87360114602	CONAM, Alaska	m	Unknown, Area 10 X 10 feet	Hydraulic oil	5	Soaked up with sorbents	Interim Containment	
6/7/87	87360115802	ARCO Alaska, Inc.	y	Road to DS 17,	Crude	5	Bladed into road bed	Padspred	
6/8/87	87360115904	ARCO Alaska, Inc.	y	DS 4, Well 4,	Diesel	5	Contaminated gravel scraped up	Padspred	
6/8/87	87360115906	ARCO Alaska, Inc.	y	DS 17, Well 11,	Crude/diesel	5	Contaminated gravel scraped up	Padspred	
6/21/87	87360117201	ARCO Alaska, Inc.	y	DS 16, Well 2,	Diesel	5	Soaked up with sorbents-contaminants scraped up	Sorbents Incinerated-solids Padspre	
6/25/87	87360117604	ARCO Alaska, Inc.	y	DS 1,	Diesel	5	Soaked up with sorbents	Incinerated	
6/30/87	87360118102	Standard Alaska Production Com	y	R Pad, Tundra at southeast edge of north pit	Crude	5	Soaked up with sorbents	Incinerated	Saturated insulation drip.
7/7/87	87360118801	ARCO Alaska, Inc.	y	DS L5,	Crude	5	Soaked up with sorbents	Incinerated	
7/8/87	87360118901	ARCO Alaska, Inc.	y	DS 11,	Hydraulic oil	5	Soaked up with sorbents	Incinerated	
7/8/87	87360118902	ARCO Alaska, Inc.	y	DS Maintenance Pad,	Hydraulic oil	5	Contaminants scraped up & steam cleaned	Liquids Injected/gravel Respread	
7/22/87	87360120201	ARCO Alaska, Inc.	m	CTU, Area around vehicle diesel loading station	Diesel	5	Soaked up with sorbents	Incinerated	
7/25/87	87360120801	ARCO Alaska, Inc.	y	DS 17,	Crude	5	Soaked up w/sorbents- contaminants scraped up	Sorbents Incinerated-contams Respre	
8/7/87	87360121901	Standard Alaska Production Com	y	WOA Operations Whse Storage Yd,	Crude	5	Gravel washed	Subsurface Injection	
8/18/87	87360123001	ARCO Alaska, Inc.	y	DS 18, Area around Reserve Pit	Diesel	5	Liquid vaccumed/soaked up with sorbents	Recycled	Crude blown onto water
8/30/87	87360124201	Standard Alaska Production Com	y	R-Pad, North Pit, Area of tundra at base of pit dike wall	Crude	5	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-cont. To Nsb	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/22/87	87360129501	ARCO Alaska, Inc.	y	Srill Site 9,	Diesel	5	Soaked up w/sorbents-contaminants scraped up	Sorbents Incinerated-conts Padsprea	
10/24/87	87360129701	ARCO Alaska, Inc.	y	DS 9, Area around slop tank	Crude	5	Soaked up with sorbents	Incinerated	
11/21/87	87360132601	ARCO Alaska, Inc.	y	DS 16, Well 16,	Methanol	5	Contaminated snow scraped up	Interim Containment	
11/23/87	87360132701	ARCO Alaska, Inc.	y	DS 9, Well 6,	Crude	5	Soaked up with sorbents/contaminants scraped up	Sorbents Incinerated/conts. To Land	
12/3/87	87360133701	ARCO Alaska, Inc.	y	DS L2,	Crude	5	Soaked up with sorbents/contaminants scraped up	Approved Landfill	
12/12/87	87360134602	Standard Alaska Production Com	y	F-Pad Sik Area,	Hydraulic oil	5	Contaminants scraped up	Incinerated	
12/18/87	87360135201	Standard Alaska Production Com	y	BOC - POL, Area around POL ramp	Gasoline	5	Contaminants scraped up	Approved Landfill	
2/17/88	88360104801	Standard Alaska Production Com	y	CSTF: BOC,	Hydraulic oil	5	Contaminants scraped up	Approved Landfill	
2/29/88	88360106003	ARCO Alaska, Inc.	y	DS 2, Well 2, Area around an annulus being bled	Crude/diesel	5	Contaminants scraped up	Interim Containment	
3/7/88	88360906701	Standard Alaska Production Com	y	BOC Parking Lot,	Antifreeze	5	Contaminants scraped up	Incinerated	
3/17/88	88360107702	ARCO Alaska, Inc.	y	DS 3, Well 13,	Crude/diesel	5	Contaminants scraped up	Approved Landfill	
3/24/88	88360108401	ARCO Alaska, Inc.	y	C.C.P. Module #4903,	Lube oil	5	Contaminants scraped up	Interim Containment	
4/17/88	88360110801	Standard Alaska Production Com	m	Various locations,	Engine lube oil	5	Contaminants scraped up	Incinerated	Spots found in various locations due to thaw.
4/18/88	88360110901	Standard Alaska Production Com	y	R2 and R7 Areas,	Lube and hydraulic fluids	5	Contaminants scraped up	Approved Landfill	
4/23/88	88360911401	ARCO Alaska, Inc.	y	FS 3,	Biocide	5	Contaminants scraped up	Subsurface Injection	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/5/88	88360112603	ARCO Alaska, Inc.	y	NGI - Well 8,	Hydraulic oil	5	Contaminants scraped up	Interim Containment	
5/11/88	88360113202	Standard Alaska Production Com	y	Y-1,	Hydraulic oil	5	Contaminants scraped up	Approved Landfill	
5/30/88	88360115101	ARCO Alaska, Inc.	y	FS 1,	Crude	5	Soaked up with sorbents	Incinerated	
6/15/88	88360116707	Dowell Schlumberger	m	Spline Road, Prudhoe Bay, Spline Road/Prudhoe Bay	Diesel	5	Scrape up stain		Hairline fractures in dike
6/21/88	88360117301	ARCO Alaska, Inc.	y	DS 12 Mainfold Bldg, Drillsite 12, Manifold building	Unknown	5	Loader used to pickup material	Other	Oiltype: corrosion inhibitor
6/26/88	88360117803	ARCO Alaska, Inc.	y	U21 Equipment Storage,	Diesel	5	Contaminants scraped up	Approved Landfill	
7/7/88	88360118904	Standard Alaska Production Com	y	B-9, contained on pad	Diesel	5	Contaminated gravel removed with blade	Other	diesel dripped from a leaky transport valve
7/8/88	88360119002	ARCO Alaska, Inc.	y	DS 3, Well 25, DS 3, Well 25	Diesel	5	Picked up contaminated gravel	Approved Landfill	
7/9/88	88360119102	ARCO Alaska, Inc.	m	Fuel Site 2, Fuel Site 2	Diesel	5	Bladed into gravel pad		
7/11/88	88360119301	ARCO Alaska, Inc.	m	E of Security Check Road, E of Security Check Road	Diesel	5	Bladed diesel into the pad		
7/22/88	88360120402	SAPCO	y	Permafrost Pad, contained on pad	Diesel	5	Removed residue out of tank/replaced fittings	Approved Landfill	leaking connection on Tank #5
7/22/88	88360120404	ARCO Alaska, Inc.	y	DS 16, Well 7, contained on pad	Crude	5	Used absorbents, graded grade b gravel into pad	Incinerated	drainage from vac truck hose/was not drained properly
7/23/88	88360120501	ARCO Alaska, Inc.	y	DS 3, contained on pad	Diesel	5	Contaminated gravel graved into pad		
7/24/88	88360120601	ARCO Alaska, Inc.	m	LTC, contained on pad	Glycol	5	Removed contaminated gravel	Approved Landfill	Material type TEG (triethylene Glycol)
8/14/88	88360122703	ARCO Alaska, Inc.	y	DS Maintenance S. Hanger, contained on pad	Diesel	5	Loader was used to remove comtaminated gravel		material leaked from a generator fuel truck
8/20/88	88360123303	ARCO Alaska, Inc.	y	DS 2, Well 20, contained on pad	Hydraulic oil	5	Absorbents/shovels used to pick up gravel	Incinerated	pump discharge hose ruptured on a well safety system
8/29/88	88360124201	Standard Alaska Production Com	y	GC-3 Skid 22, contained on pad	Glycol	5	Contaminated gravel removed	Incinerated	
9/8/88	88360125201	ARCO Alaska, Inc.	y	DS 9, Well 16, contained on pad	Diesel	5	Absorbents then gravel graded into pad	Incinerated	
9/10/88	88360125402	ARCO Alaska, Inc.	y	FS 1, contained on pad	Emulsion breaker	5	Removed 3 yards gravel	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/11/88	88360125503	SAPC Endicott	m	A-Pad, Skid 56, contained on pad	Crude	5	Absorbents on oil, loader on gravel	Incineration/approved Landfill	hose failure transferring crude from skid bldg to holding tank
9/14/88	88360125806	SAPC Endicott	y	Well A-32, contained on pad	Diesel	5	Gravel scraped up with loader	Approved Landfill	
9/14/88	88360125809	SAPC Endicott	y	Well Q-5, contained on pad	Diesel	5	Loader on gravel	Approved Landfill	
9/14/88	88360125905	SAPC Endicott	m	E-25, contained on pad	Diesel	5	Gravel removed with loader	Approved Landfill	heater parked at angle allowing fuel to escape out filler neck
9/14/88	88360125906	SAPC Endicott	y	Well R-23, contained on pad	Diesel	5	Loader on gravel	Approved Landfill	
9/15/88	88360125901	Standard Alaska Production Com	y	GC-2, Skid 450, contained on pad	Crude	5	Bucket loader, shovels to pick up gravel	Approved Landfill	wind blown oil when opening pig receiver doors
9/23/88	88360126702	ARCO Alaska, Inc.	y	Pad 3, Oily Waste Inj. Fac., contained on pad	Hydraulic oil	5	Contaminated snow picked up with loader	Approved Landfill	Aviation Hydraulic Fluid
10/1/88	88360127501	ARCO Alaska, Inc.	y	DS 18, Well 1, contained on pad	Diesel	5	Hand shovels used to removed contaminated material	Interim Containment	
10/7/88	88360128101	VECO	y/m	FS 1, CPF1 Injection Facility, on snow	Seawater with Other	5	Scooped up	Approved Landfill	seawater with trace of hydrocarbon
10/15/88	88360128904	SAPC Endicott	m	Wells M-18, 19 and 12, contained on pad	Crude	5	Loader and shovels used on contaminants	Approved Landfill	messy conditions around above area due to well work and traffic
10/30/88	88360130401	ARCO Alaska, Inc.	y	DS 16, contained on pad	Hydraulic oil	5	Loader for snow, absorbents for fluids	Incinerated	loose connection on hydraulic fluid supply tank
10/30/88	88360130402	ARCO Alaska, Inc.	y	DS 12, Well 12, contained on pad	Hydraulic oil	5	Absorbents for material, shovels for snow	Incineration/approved Landfill	
11/10/88	88360131501	SAPC Endicott	y	X-Pad, Well X-4, contained on pad	Hydraulic oil	5	Fluid and gravel scraped up with loader	Approved Landfill	broken hydraulic line
11/11/88	88360131603	ARCO Alaska, Inc.	y	DS 11, Well 13, contained on pad	Hydraulic oil	5	Absorbents for material; loader for snow	Incinerated	during squeeze operation hose ruptured on tanker
11/14/88	88360131902	ARCO Alaska, Inc.	y	DS 4, Well 32, contained on pad	Hydraulic oil	5	Snow picked up with loader	Approved Landfill	hose failure on control panel
11/17/88	88360132203	ARCO Alaska, Inc.	y	DS 13, Well 32, contained on pad	Hydraulic oil	5	Snow picked up with loader	Approved Landfill	hose failure on boom truck
11/21/88	88360132602	SAPC Endicott	y	Well B-6, containe in snow on pad by well house	Crude	5	Shovels and loader used for snow	Incinerated	oil sprayed from top of well during E-Line work
11/27/88	88360133202	ARCO Alaska, Inc.	y	DS 11, Well 15, contained on pad	Methanol	5	Loader removed contaminated snow and material	Approved Landfill	hose leaked during perforation of well
12/16/88	88360135103	ARCO Alaska, Inc.	y	DS L5, contained on pad	Hydraulic oil	5	Absorbents used on snow	Incinerated	hydraulic hose cut on loader
12/18/88	88360135301	ARCO Alaska, Inc.	y	DS 16, well 16, contained on pad	Diesel	5	Snow cleaned by loader	Approved Landfill	slop trailer overfilled during well work operation

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/31/88	88360136604	SAPC Endicott	m	U-305, not given	Crude	5	Oil scraped up with loader	Recycled	driver did not get all pressure off hose before disconnecting
1/5/89	89360100502	SAPC Endicott	m	Unit 303, not given	Antifreeze	5	Absorbent pads laid down, gravel scalped/washed	Multiple/see Disposal	lines blocked until insulation can be removed to find leak
1/5/89	89360100503	SAPC Endicott	y	Well Pad U-12, contained on pad	Diesel	5	Contaminate removed from site	Recycled	
1/12/89	89360101201	ARCO Alaska, Inc.	m	1/4 mile South of Sag River, on access road on snow	Hydraulic oil	5	Loader scraped up contaminated snow	Recycled	hose broke on tanker truck
1/24/89	89360102404	SAPC Endicott	y	BOC Fuel Pumps, contained on pad	Gasoline	5	Material scraped up and hauled to melter site	Recycled	vehicle fuelers inattentiveiness
2/2/89	89360903301	SAPC Endicott	m	roof of module 401, roof of module	Antifreeze	5	Wiped down roof, cleaned up snow/ice	Multiple/see Disposal	Material MEG spilled when vent malfunctioned. Spill not apparent until melting began
2/3/89	89360103402	ARCO Alaska, Inc.	y	DS 6, Well 10, contained 4'x4' area of reserve pit, S. end of pad	Other	5	Loader removed material & contaminated snow/melted and taken to pad 3.	Approved Landfill	Scale inhibitor leaked from tubing leading from the module to well
2/10/89	89360104104	ARCO Alaska, Inc.	y	DS 4, Flowline 21, contained on pad	Crude	5	Snow scraped up by loader	Approved Landfill	leaking flange on well flowline
2/11/89	89360104204	ARCO Alaska, Inc.	y	DS L1, Well 9, contained on pad	Crude	5	Contaminated snow scraped up by loader	Recycled	operator made sudden stop and crude spilled out hatch top
2/11/89	89360104205	ARCO Alaska, Inc.	y	DS L5, Well 21, contained on pad	Crude	5	Contaminated snow scraped up by loader	Approved Landfill	excessive pressure while bleeding well choke; mix 50% crude/50seawater
2/15/89	89360104603	BPXA	y	Y Pad, contained on pad	Hydraulic oil	5	Contaminates picked up by contractor, bagged	Incinerated	broken hydraulic hose on dump truck
2/16/89	89360104703	ARCO Alaska, Inc.	y	DS 9 Access Rd, contained on pad	Hydraulic oil	5	Picked up snow and material with loader	Approved Landfill	during repairs hose from sideboom ruptured
2/16/89	89360104704	BPXA	y	BOC Fuel Dumps, contained on pad	Methanol	5	Contaminates removed by loader	Recycled	valve left open during refueling caused methanol mix to drain out
2/17/89	89360104804	BPXA	y	spine rd, 1.5 mi past Z pad, contained on top of snow off shoulder of road	Hydraulic oil	5	Shovels, bagged	Incinerated	hose blew on rig sub-structure hauling unit during transit
3/3/89	89360106202	ARCO Alaska, Inc.	y	FS 2, South area of pad, contained on pad. 1' x 20' area	Hydraulic oil	5	Loader used to remove snow and material. taken to nsb landfill	Approved Landfill	Material leaked from loader due to rupture in hydraulic hose.
3/7/89	89360106602	ARCO Alaska, Inc.	y	Seawater Treatment Plant, contained on pad	Antifreeze	5	Snow shoveled up, placed in module sump. non-useable fluid to be injected at cpf-1 disposal well.	Multiple	radiator cap and fill nozzle on generator failed
3/13/89	89360107202	ARCO Alaska, Inc.	y	DS 18, Well 8, contained on pad	Antifreeze	5	Loader scraped up contaminated snow. taken to nsb ow pit.	Approved Landfill	Broken radiator hose. Snow to NSB oily waste pit. Mixture 60% glycol, 40% water.
3/13/89	89360107203	ARCO Alaska, Inc.	y	DS 12, Well F30, Contained on pad.	Crude	5	Snow removed by loader, taken to nsb for disposal.	Approved Landfill	Cellar box overflowed during drilling operation.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/13/89	89360107204	ARCO Alaska, Inc.	y	COTU (Crude Oil Topping Unit), Contained on pad.	Antifreeze	5	Snow removed by loader, taken to nsb for disposal.	Approved Landfill	Spilled material observed on pad, suspected cause leak in vehicle radiator.
3/14/89	89360107304	ARCO Alaska, Inc.	y	DS 9, Well 22, contained on pad	Antifreeze	5	Loader used to pick up contaminated snow. disposed of at nsb landfill	Approved Landfill	Mixture 50-50 glycol and water. Suspected cause vehicle radiator leak.
3/26/89	89360108501	ARCO Alaska, Inc.	y	DS 6 Manifold Building, None. Contained on pad area 3 x 6 ft.	Corrosion inhibitor	5	Snow shoveled into bag, taken to pad 3.	Approved Landfill	main line vent frozen. While filling truck, material vented out of pump sight glass vent line.
3/31/89	89360109001	ARCO Alaska, Inc.	y	DS 5, Well 16, Contained on Pad	Diesel	5	Handshovels and rakes used to remove material and contaminated snow. taken to pad 3	Approved Landfill	Mixture 95 % diesel and 5 % methanol. While taking returns from well operation, wind carried fine mist of material from open top tank onto pad below.
4/6/89	89360109604	BPXA	y	GC-2, Contained on pad.	Antifreeze	5	Contaminates shoveled and scraped up, deposited in melter for recovery.	Recycled	Glycol leak in overhead line.
4/6/89	89360109605	BPXA	y	GC-2, Contained on pad.	Diesel	5	Contaminates shoveled and scraped up, deposited in melter for recovery.	Recycled	Unknown source leaked diesel around Tank T-211.
4/7/89	89360109702	ARCO Alaska, Inc.	y	DS 2, Wellhouse # 2, On pad on top of hard packed snow. 5' x 10' area.	Crude	5	Picked up with loader, taken to pad 3 for injection.	Subsurface Injection	Mixture 95% water, 5% crude. Melting water from cellar overflowed from wellhouse.
4/7/89	89360109705	Pool Arctic Alaska	y	Rig 7, North of DS 17, tundra	Antifreeze	5	Cleaned up, bagged. dug down to top of tundra to verify clean up.	Not Given	Damage to crane caused spill.
4/9/89	89360109902	ARCO Alaska, Inc.	y	DS 13, Well 13, contained on pad atop hardpack snow.	Crude	5	Loader picked up snow, melted at pad 14, injected at pad 3	Subsurface Injection	While flowing well to flowback tank, gas and oil surging caused a mist to spray from flowback tank.
4/10/89	89360110004	BPXA	y	N Pad near entrance to pad, Contained on pad	Hydraulic oil	5	Shovels used to remove material. taken to nsb incinerator.	Incinerated	Hydraulic hose line separated on trenching unit during startup.
4/14/89	89360110402	ARCO Alaska, Inc.	y	DS 7, Contained on snow packed gravel pad	Unknown	5	Hand shovels and loader picked up snow. taken to pad 3 after melting.	Approved Landfill	While delivering material into one of the manifold buildings, an air lock condition resulted in an overflow thru vent.
4/17/89	89360110702	ARCO Alaska, Inc.	y	DS L5, Well 16, Contained on snow on pad	Crude	5	Absorbents used to soak up material. material melted. absorbents disposed of at nsb incinerator.	Incinerated	Mixture of 50% diesel 50% crude spilled during drilling when hard line union sprayed material onto pad.
4/19/89	89360110901	ARCO Alaska, Inc.	y	FS 3, Module 4932, Contained on snow on pad	Diesel	5	Snow picked up with loader, taken to pad 3 for disposal	Approved Landfill	Spill occurred during hydro test operations.
4/22/89	89360111201	ARCO Alaska, Inc.	y	DS 16, spine road, on road surface on hard packed snow	Hydraulic oil	5	Loader used to scrape up snow, melted and recycled at fs 1	Recycled	Hydraulic hose failure on road grader.
4/27/89	89360111701	ARCO Alaska, Inc.	y	DS 11, Well 1, contained on snow on pad	Hydraulic oil	5	Hand shovels and absorbents used. material melted and soaked up with aborbents which were incinerated at nsb incinerator	Incinerated	Ruptured hose on loader.
4/28/89	89360111801	ARCO Alaska, Inc.	y	FS 1, contained on snow	Crude	5	Hand shovels and absorbents. absorbents bagged, taken to nsb incinerator.	Incinerated	Material leaked from a vent line on a tank due to a faulty check valve.
4/30/89	89360112001	ARCO Alaska, Inc.	y	LGI 8, contained on snow on pad	Crude	5	Snow picked up with shovels. taken to snow melter, then to pad 3 for injection	Subsurface Injection	Grease and crude sprayed when grease seal lost on wireline head unit.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/5/89	89360112502	ARCO Alaska, Inc.	y	Lisburne Production Center, contained on pad on snow	Crude	5	Loader scraped up material, melted and disposed of at pad 3	Approved Landfill	Leaking pump valve on vac truck.
5/5/89	89360115603	BPXA	y	Well N 14, Contained in snow and ice	Crude	5	Shovels used on snow and ice, taken to melt tank for recovery.	Recycled	Leak from lateral live valve back of well house.
5/8/89	89360112802	BPXA	y	Well E 3, contained in ice and snow on pad	Methanol	5	Contaminated snow and ice scraped up with loader, taken to melter for recovery.	Recycled	Methanol leaked from hoses when equipment was leaving work site.
5/12/89	89360113201	ARCO Alaska, Inc.	y	DS 13 Manifold bldg, 5 ft square area	Crude	5	Absorbents and hand shovels used. absorbents to nsb incinerator, snow and material to pad 3.	Multiple	Mixture 80% crude, 20% methanol. During wireline operation valve leaked discharging material onto pad
5/29/89	89360114903	BPXA	m	Box Pad, east end of OPS offices, contained on pad	Other	5	Sorbents used, then removed to nsb incinerator. ice removed	Incinerated	Turbo oil spilled, cause unknown.
5/30/89	89360115009	Dowell Schlumberger	m	South end of pad near entrance, in front of waste oil tank., gravel pad	Waste crankcase	5	Gravel, dirt scooped up to be disposed of in nsb dump.	Approved Landfill	No accurate location given. Seepage, leaking noted when snow began melting. Leaking tank removed 5/31/89.
6/2/89	89360115301	ARCO Alaska, Inc.	m	Sag River --150 ft upriver from Sag River bridge, River water and gravel bank	Diesel	5	While excavating snow to identify and remove source, sheen disappeared. cleanup and recovery not possible.	None Required	Cause unknown, slight sheen emanating from east bank. Due to small quantity and flood stage on river, cleanup, recovery not possible.
6/21/89	89360117301	BPXA	y	GC 1, Skid 404, contained on pad.	Antifreeze	5	Gravel removed with loader, taken to a3w2 at santa fe pad.	Approved Landfill	
6/24/89	89360117504	BPXA	y	F Pad entrance, Contained on pad	Engine lube oil	5	Absorbents, gravel shoveled up, taken to nsb incinerator.	Incinerated	After snow melted, absorbents were discovered which had been laid down for a spill and never picked up.
6/26/89	89360117703	BPXA	y	B Pad, Ice and snow floating on top of water.	Engine lube oil	5	Absorbents used, ice removed with backhoe. sorbents to nsb incinerator, ice to a3/w2 tank.	Multiple	Any damage to environment will be noted in final report.
6/28/89	89360117903	ARCO Alaska, Inc.	y	DS 17, Well 5, contained on pad	Gelled water	5	Absorbents used, taken to nsb incinerator. small amt. gravel removed, taken to pad 3	Multiple	Gelled water released during failure of high pressure valve grease fitting.
7/5/89	89360118602	ARCO Alaska, Inc.	y	COTU, contained on pad	Diesel	5	Hand shoveled gravel, used absorbents. bagged, taken to nsb incinerator.	Incinerated	Material leaked from tank union which had not been tightened after steam cleaning.
7/7/89	89360118806	BPXA	y	T Pad, contained on pad	Hydraulic oil	5	Vacuumed up, taken to gtc-ii skim tank for recovery.	Recycled	
7/11/89	89360119202	ARCO Alaska, Inc.	y	COTU, Furnace 2, contained on gravel	Crude	5	Absorbents used, gravel removed. sorbents to nsb incin., gravel to nsb sowp.	Multiple	Pressure check valve opened with line under pressure.
7/11/89	89360119203	BPXA	y	GC 2, Skid 5A, contained on pad	Antifreeze	5	Gravel cleaned up with shovel and bucket, taken to sant fe pad.	Approved Landfill	Product (MEG) spilled because of loose bolt in valve body.
7/14/89	89360119502	ARCO Alaska, Inc.	y	DS L3, Well 1, contained on pad	Crude	5	Absorbents used, gravel removed. sorbents to nsb incin., gravel to nsb sowp.	Multiple	Mixture 50% crude, 50% diesel leaked when pressure injection test line leaked.
7/14/89	89360119605	Dowell Schlumberger	m	No location given, contained on pad	Diesel	5	Absorbents used, taken to landfill.	Approved Landfill	95% diesel, 5% xylene spilled when hose leaked.
7/14/89	89360119606	Dowell Schlumberger	m	No location given, road	Antifreeze	5	Absorbents used, taken to landfill.	Approved Landfill	Radiator coolant spilled when hose broke.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/14/89	89360119608	Dowell Schlumberger	y	DS 14, Well 34, 5' x 8' on pad	Diesel	5	Absorbents, gravel removed. gravel taken to nsb landfill, absorbents to nsb burnable dumpster.	Multiple	Mixture 95% diesel, 5% xylene.
7/14/89	89360119609	Dowell Schlumberger	y	DS 14, Well 34, No damage	Antifreeze	5	Absorbents, gravel removed. gravel taken to nsb landfill, absorbents to nsb burnable dumpster.	Multiple	Coolent fluid.
7/23/89	89360120401	ARCO Alaska, Inc.	y	DS L3, Well 28, Gravel	Diesel	5	Absorbents used, loader picked up gravel. sorbents to nsb incinerator, gravel to nsb sowp	Multiple	Hose improperly attached.
7/23/89	89360120403	ARCO Alaska, Inc.	y	DS 1, gravel pad	Emulsion breaker	5	Absorbent pads used, taken to nsb incinerator	Incinerated	Breaxit 81-90 an Exxon emulsion breaker.
7/29/89	89360121001	ARCO Alaska, Inc.	y	COTU, Contained on pad	Crude	5	Absorbents used, bagged, taken to dump.	Approved Landfill	During filling of blow down tank, crude backed up through check valve which did not hold.
7/30/89	89360121102	Dowell Schlumberger	m	DS district, next to shop acid storage tank, gravel	Acid	5	Neutralized acid with soda ash, shoveled up gravel, placed in solid waste container to be taken to nsb landfill.	Approved Landfill	Hydrochloric acid.
8/8/89	89360122001	ARCO Alaska, Inc.	y	FS 1 slop oil tank, contained on pad	Crude	5	Super sucker used on gravel, taken to pad 3 sowp.	Approved Landfill	Truck operator disconnected hose with pressure still on line.
8/8/89	89360122006	ARCO Alaska, Inc.	y	FS 2, gravel pad	Hydraulic oil	5	Absorbents used, gravel scooped up. sorbents to nsb incinerator, gravel to nsb sowp.	Multiple	Mixture hydraulic and lube oil.
8/9/89	89360122102	ARCO Alaska, Inc.	y	DS 5 Well 17, gravel	Methanol	5	Super sucker used, material taken to pad 3.	Approved Landfill	Mixture 50% methanol, 50% 1 1/4 lb. XCD gel with water. While blowing down hardline, fluid blew out of tank.
8/14/89	89360122601	ARCO Alaska, Inc.	y	DS 14, Well 32, Contained on pad	Diesel	5	Absorbents used, gravel picked up, taken to nsb sowp.	Approved Landfill	Pump shut down causing pressure to back up and release material out the supply tank vent.
8/23/89	89360123504	Halliburton Logging Service	m	2555 Spine Road, East corner of pad, Most on gravel pad, small amount on tundra	Engine lube oil	5	Digging up gravel. when tundra freezes will dig up with backhoe. gravel to be taken to nsb landfill.	Approved Landfill	Overloade water separator system.
8/31/89	89360124304	Camco Wireline	y	DS 12 ARCO, Contained on pad	Hydraulic oil	5	Absorbents used, no gravel contaminated. put in specila dumpster at arco field maintenance to be taken to nsb plant.	Interim Containment	Gasket on PTC pump failed where it flanges up to engine.
8/31/89	89360124305	Camco Wireline	y	DS 12 ARCO, Contained on pad	Hydraulic oil	5	Absorbents used, no gravel contaminated. put in specila dumpster at arco field maintenance to be taken to nsb plant.	Interim Containment	Gasket on PTC pump failed where it flanges up to engine.
9/3/89	89360124601	ARCO Alaska, Inc.	y	Seawater Treatment Plant Pad Area, Contained on pad outside housing.	Diesel	5	Material shoveled up and bagged, taken to nsb dumpster.	Approved Landfill	Emergency generator leaked in building. Drips fell through cracks.
9/4/89	89360124701	ARCO Alaska, Inc.	y	COTU, contained on pad	Crude	5	Super sucker, absorbents used. pads to burnable dumpster, gravel to nsb sowp.	Multiple	While replacing a piece of pipeline from spill previously reported, residual oil leaked.
9/4/89	89360124703	ARCO Alaska, Inc.	y	COTU, contained on pad	Crude	5	Absorbents used on free liquid, gravel removed. sorbents to nsb dumpster, gravel to owp.	Multiple	While flushing a residual crude line, valve was indadvertently disconnected to check lack of flow.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/15/89	89360125801	ARCO Alaska, Inc.	y	FS 2 Parking lot, contained on pad	Hydraulic oil	5	Absorbents and loader used. absorbents taken to nsb incinerator, gravel to nsb sowp	Multiple	Filter on pump rubbed against frame, leaked from hole.
9/24/89	89360126701	BPXA	y/m	Santa Fe Pad, Contained on pad	Diesel	5	Sorbents used on pooled diesel, gravel removed with shovels and loader. sorbents to nsb dumpster for incineration, gravel in holding tank for nsb owp.	Multiple	Valve on fuel truck stuck in open position.
10/8/89	89360128101	ARCO Alaska, Inc.	y	DS 14, Well 34, Contained on pad.	Diesel	5	Absorbents used, loader removed gravel. taken to nsb swop.	Approved Landfill	O Ring failure.
10/12/89	89360128501	ARCO Alaska, Inc.	y	Spine Road intersection, SE ARCO airstrip/runway, Contained on gravel	Methanol	5	Super sucker removed contaminated gravel. taken to nsb sowp.	Approved Landfill	Valve not tightly closed, camlock fitting came off during transport.
10/12/89	89360128503	BPXA	y	GC 3, Skid 494, heat trace line, Contained on pad	Antifreeze	5	Absorbents used, gravel shoveled into bags, put into dumpster for incineration, gravel to nsb owp.	Multiple	Hole in line.
10/25/89	89360129801	ARCO Alaska, Inc.	y	FS 1, Contained on pad	Hydraulic oil	5	Absorbents used, taken to nsb incinerator.	Incinerated	Hydraulic pump seal blew out.
11/3/89	89360930701	ARCO Alaska, Inc.	y	FS 3, Contained on pad.	Antifreeze	5	Liquid vacuumed up, gravel removed. liquid recycled, gravel to nsb landfill.	Multiple	Leak developed in produced water tank. Mixture U Car Therm, 60% glycol, 40% water.
11/9/89	89360131301	ARCO Alaska, Inc.	y	DS 6 Well 7, Contained on pad	Crude	5	Absorbents used, small amount gravel removed, taken to nsb sowp. sorbents incinerated	Incineration/approved Landfill	Vent release on compressor due to foaming action of crude.
11/17/89	89360932102	ARCO Alaska, Inc.	y	DS 5 Well 10, Contained on pad	Methanol	5	Absorbents used, taken to burnable dumpster. snow and gravel removed, taken to nsb sowp.	Incineration/approved Landfill	Bleed valve left open on pump suction while trouble shooting.
11/18/89	89360132201	ARCO Alaska, Inc.	y	PBOC behind kitchen, Contained on pad	Diesel	5	Gravel and snow picked up, taken to nsb sowp.	Approved Landfill	Leaking valve on long haul truck gas tank.
11/19/89	89360132301	Camco	y	DS 5 Well 1, Contained on pad	Hydraulic oil	5	Absorbents used, snow removed, taken to arco field maintenancefor disposal by arco.	Approved Landfill	Hose on power take off system ruptured.
11/20/89	89360232401	ARCO Alaska, Inc.	y	DS 15 Well 13, Contained on pad	Other	5	Frozen material scraped up, taken to cuttings box for disposal with solid waste material.	Approved Landfill	Valve on camp holding tank not properly closed.
11/20/89	89360932401	ARCO Alaska, Inc.	y	DS 12 methanol storage tank, Contained on pad	Methanol	5	Gravel removed, taken to nsb sowp.	Approved Landfill	60% methanol, 40% water spilled when gate valve on tank would not seat due to ice and snow.
11/26/89	89360133001	BPXA	y	GC 3 yard, Contained in snow on pad	Crude	5	Snow removed by loader, taken to snow melter for recovery.	Recycled	Fitting failed on rear of peak vacuum truck.
11/27/89	89360933101	ARCO Alaska, Inc.	y	DS 3 Well 22, Contained on pad	Methanol	5	Super sucker removed gravel, took to nsb landfill.	Approved Landfill	Camlock cap came off hose not drained prior to transportation.
11/30/89	89360133404	ARCO Alaska, Inc.	y	DS 15 Well 16, Contained on pad	Diesel	5	Gravel removed, taken to nsb sowp.	Approved Landfill	Leaking fuel line.
12/17/89	89360135102	ARCO Alaska, Inc.	y	Heavy Equipment Yard, Contained on pad	Diesel	5	Snow/gravel removed, taken to nsb sowp.	Approved Landfill	Vac unit leaked around agitator. Mixture diesel/crude, no ratios available.
12/31/89	89360936501	ARCO Alaska, Inc.	y	FS 3 DS 13 manifold bldg., Contained on pad	Methanol	5	Loader removed snow and gravel, taken to nsb sowp.	Approved Landfill	Leaking pump during injection spilled 5 gal. methanol, 5 gal. water.
1/3/90	90360100301	ARCO Alaska, Inc.	y	DS 17 Well 2, Snow on pad	Hydraulic oil	5	Loader removed material/snow, melted and recycled at fs 1.	Recycled	Line ruptured on crane.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/5/90	90360900501	BPXA	y	WSW, Skid 326, Contained on pad.	Methanol	5	Material shoveled up, taken to a3/w2 melter.	Not Given	No tundra or water affected.
1/6/90	90360100603	ARCO Alaska, Inc.	y	LPC, Gravel pad	Crude	5	Loader used, material melted at fs 1, recycled.	Recycled	Hose gasket failed while loading material.
1/10/90	90360101001	ARCO Alaska, Inc.	y	DS 4 Well 5, Contained on pad	Crude	5	Shovels removed gravel. taken to nsb sowp..	Approved Landfill	Pump bleeddown hose blew out of slop trailer.
1/10/90	90360901001	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Methanol	5	Absorbents used, taken to burnable dumpster.	Incinerated	Temp line disconnected, residual spilled. Mixture 95% methanol, 5% water.
1/14/90	90360101401	ARCO Alaska, Inc.	y	LPC slop oil facility, Contained on pad	Crude	5	Snow and gravel removed, taken to nsb sowp.	Approved Landfill	During venting operation on vac truck, crude remained in accumulator pot and drained out vent pipe.
1/14/90	90360901404	BPXA	y	GC 2, Skid 472, Contained on pad	Antifreeze	5	Snow/gravel/ice removed by loader, taken to t pad sowp for recovery.	Recycled	Bucket with waste glycol inadvertantly poured into fire water deluge drain which drained out from skid building onto pad.
1/16/90	90360101601	BPXA	y	BOC Fuel Pumps, Contained in snow and gravel on pad	Gasoline	5	Snow/gravel removed by grader and loader. taken to melt tank at a3w2 for recovery.	Recycled	Fuel nozzle failed to shut off, overfilling vehicle tank.
1/18/90	90360101802	BPXA	y	BOC Fuel Pumps, Contained on pad	Gasoline	5	Absorbents used, material scraped up. sorbents to nsb incinerator, ice to a3w2 for thawing.	Incineration/approved Landfill	Automatic shutoff failed during vehicle fueling. Stores and Environmental researching ways to prevent recurrence, i.e. liners or removal of auto pump clips from nozzles.
1/21/90	90360102108	BPXA	y	BOC bulk fuel ramp, Contained on pad	Diesel	5	Absorbents used, loader removed contaminants. sorbents to nsb incinerator, contaminants to a3w2 for recovery.	Multiple	Leaky valve on back end of vac truck because of ice buildup in valve.
2/3/90	90360103405	BPXA	y	C Pad ice road, Contained in ice and snow on road surface	Hydraulic oil	5	Shovels removed snow, bagged and taken to melt tank at a3w2 santa fe pad for recovery.	Recycled	Leak from fitting on vehicle.
2/3/90	90360903401	ARCO Alaska, Inc.	y	DS 18, Contained on padj	Antifreeze	5	Shoveled up, recycled as freeze protection in well annulus.	Recycled	Loose hose fitting on generator. Mixture 50/50 glycol/water.
2/4/90	90360903501	BPXA	y	E Pad Well 15, Contained in snow on pad	Methanol	5	Shovels removed snow, bagged, put into melt tank at a3w2 at santa fe pad for recovery.	Recycled	Leak from coiled tubing nitrogen lift.
2/5/90	90360103604	BPXA	y	D Pad, Contained on pad	Diesel	5	Loader scraped up material, taken to nsb ow pit.	Approved Landfill	Driver backed into reserve pit after fuel delivery, causing pipe to break.
2/10/90	90360104103	Camco	y	DS 9 Well 30, Contained on pad	Diesel	5	Scooped up material, bagged, took to arco ds maintenance burnable dumpster.	Incinerated	Opened needle valve caused overflow of slop oil tank, spilling 50% diesel, 50% dead crude.
2/11/90	90360104203	ARCO Alaska, Inc.	y	DS 13 Methanol water pit, Contained in deep snow in impoundment/pad	Crude	5	Hand shovels used, material taken to pad 3 sowp.	Approved Landfill	While bleeding pressure from line header, valve leaked, wind sprayed mist.
2/12/90	90360104302	ARCO Alaska, Inc.	y	DS 13 Well 6, Contained on pad	Diesel	5	Absorbents used, taken to nsb incinerator.	Incinerated	Thermal expansion of tank caused overflow.
2/12/90	90360104304	BPXA	y	GC 2 Skid 301, Contained on pad	Crude	5	Shovels used, snow taken to t pad pit for recovery.	Recycled	Corrosion in effluent header caused seepage from overhead pipe.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/12/90	90360904301	BPXA	y	GC 2 Skid 301, Contained in snow on pad	Antifreeze	5	Snow to be removed by loader. snow to a3w2 melt tank for recovery.	Recycled	Heat trace line failed allowing glycol to leak to snow on pad. Final cleanup to be completed upon removal of repair scaffolding.
2/23/90	90360905402	ARCO Alaska, Inc.	y	DS 13 Well 6, Gravel pad	Methanol	5	Contaminated snow removed, taken to nsb sowp.	Approved Landfill	O ring failure during pressure test of wellhead.
2/25/90	90360105602	BPXA	y	BOC Fuel Pump, Snow on pad	Gasoline	5	Snow scraped up with loader, placed in a3w2 for recovery.	Recycled	Object placed in nozzle caused auto shut off to malfuntion.
3/19/90	90360907801	BPXA	y/m	Santa Fe Pad, Contained on pad	Antifreeze	5	Shoveled up contaminants. taken to snow melter at a3w2.	Subsurface Injection	Hose connection started leaking while blowing off enough fluid to clear lines.
3/28/90	90360108703	H.C. Price	m	ARCO Drill Tool Warehouse Rd., Snow on gravel road	Hydraulic oil	5	Snow removed, bagged, placed in burnable dumpster.	Incinerated	Steel hose ruptured on tank on earthmover.
4/5/90	90360209501	ARCO Alaska, Inc.	y	DS 16 Well 12, Contained on pad	Gelled water	5	Loader removed snow, taken to pad 3 for injection.	Subsurface Injection	Water gel spilled when camlock plug removed.
4/9/90	90360109901	BPXA	y	GC 2 Skid 407, Contained in snow and gravel on pad	Hydraulic oil	5	Absorbents used, incinerated. snow/gravel placed in snow melt tank at a3w2 for future recovery.	Multiple	
4/12/90	90360110203	BPXA	y	F Pad f-17, Contained in snow on pad	Crude	5	Snow/oil scraped up with shovels, taken to melter at a3/w2.	Recycled	Wind blew oil out of drip pan.
4/26/90	90360911601	Peak Oilfield Services	y	Pad 3 injection well, 1 ft wide on gravel	Methanol	5	Pads used, loader removed gravel. material burned at nsb.	Incinerated	Mixture 40% methanol, 10% crude, 10% water gel, 7% fresh water (mixture ratio as given by caller) spilled when hose left open. Shelly Jones, ARCO, called in spill also.
4/28/90	90360111806	BPXA	y	BOC, Contained on pad	Crude	5	Snow removed with grader, taken to a3w2 snow melter.	Interim Containment	Residue from tankwash leaked out of vac when door opened.
5/6/90	90360112601	ARCO Alaska, Inc.	y	FS 2 Fabrication Shop, Contained on pad	Engine lube oil	5	Absorbents used, loader removed gravel. pads to nsb incin., material/gravel to temp at pad 3.	Incineration/approved Landfill	Generator engine block cracked.
5/10/90	90360113002	BPXA	m	Spine Rd. 14 mi. west of Put River, Gravel road	Diesel	5	Gravel removed by loader, taken to tank at a3w2.	Interim Containment	
5/11/90	90360113103	BPXA	y	W Pad Well 12, Contained on pad	Crude	5	Absorbents used, bagged, taken to nsb incin.	Incinerated	Casing broke while injecting drilling mud, causing oil & water in well house to overflow.
5/12/90	90360113205	BPXA	y/m	Santa Fe Pad, Gravel pad	Diesel	5	Absorbents used, vac trucks. sorbents to nsb incin., fluids to gc ullage for recovery.	Multiple	Diesel spilled from equipment during winter. Will continued to work area during breakup, and daily inspection of off-pad area.
5/12/90	90360113204	BPXA	y	Next to Tool Services, Contained on pad	Diesel	5	Gravel scraped up, put in diked pit.	Interim Containment	After fueling vehicle, driver parked truck on incline and some fule leaked out.
5/22/90	90360114203	BPXA	y	F Pad Well 17, Contained on pad	Gasoline	5	Gravel removed by loader, taken to a3w2 melt tank.	Interim Containment	Leaking fuel tank.
6/7/90	90360115801	BPXA	y	J Pad Well 2, Contained on pad	Crude	5	Gravel removed by loader, taken to a3w2 melt tank.	Interim Containment	Oil found on ground around wellhouse.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/10/90	90360116103	H.C. Price	y	16 in. common line access rd. between DS 5 & FS 2, Gravel road	Hydraulic oil	5	Shoveled into bags, put in arco pad 3 swdp.	Approved Landfill	Leaking line on crane.
6/10/90	90360916101	BPXA	y	GC 2 Skid 6, Contained on pad	Antifreeze	5	Shovel removed gravel, taken to a3w2 rinse tank.	Interim Containment	Relief valve failed.
6/11/90	90360116202	BPXA	y	GC 2 Skid 402, Contained on pad	Crude	5	Sorbents used, shovels removed gravel. pads to nsb incinerator, gravel to a3w2 tank.	Multiple	Fluid fell from disconnected hose after project completion.
6/14/90	90360116502	ARCO Alaska, Inc.	y	FS 3, Contained on pad	Crude	5	Hand shovels removed gravel, taken to pad 3.	Approved Landfill	Pinhole corossion leak in common line.
6/17/90	90360116802	ARCO Alaska, Inc.	y	DS 4, Contained on pad 6 ft diameter	Diesel	5	Gravel removed, taken to pad 3.	Approved Landfill	Stain on pad found, believed to be diesel.
6/22/90	90360117301	BPXA	y	B Pad Well 6, Contained on pad	Crude	5	Material shoveled up, taken to arco pad 3 disposal pit.	Approved Landfill	Slow leak in flange.
6/26/90	90360117703	BPXA	y	BOC fuel pumps, Contained on pad	Hydraulic oil	5	Loader removed gravel, taken to a3w2 rinse tank.	Approved Landfill	
6/29/90	90360118001	ARCO Alaska, Inc.	y	DS 13 Well 13, Gravel Pad	Crude	5	Sorbents and vacuum truck used.	Incineration/approved Landfill	Type: A 75/25 mix of seawater and crude. Caused by slop trailer overflow.
7/1/90	90360118201	ARCO Alaska, Inc.	y	DS 4 Well 1, Gravel pad	Diesel	5	Absorbents used, gravel removed. taken to nsb incin. and pad 3.	Incineration/approved Landfill	Diesel contained within containment are on rig drained through hole not known to exist.
7/17/90	90360119802	BPXA	y	Y Pad Well 9, Contained on pad	Diesel	5	Gravel removed by loader and shovels. taken to arco pad 3.	Approved Landfill	Valve failure caused venting.
7/18/90	90360119902	BPXA	y	CSP Pad, Contained on pad	Gasoline	5	Absorbents used, gravel removed by loader. pads to incinerator, gravel to a3w2 rinse tank.	Multiple	Fork lift punctured gas tank.
7/21/90	90360120202	BPXA	m	Annex 1 Bullrail near spine road., Contained on pad	Hydraulic oil	5	Absorbents used, taken to nsb incineratorl.	Incinerated	Spill reported by unidentified person to security.
7/24/90	90360120502	ARCO Alaska, Inc.	y	DS L5, Contained on pad	Crude	5	Absorbents used, gravel removed. pads nsb incin., gravel to pad 3.	Approved Landfill	Leak in injection line spilled 50% diesel, 50% crude.
7/31/90	90360121204	BPXA	y	GC2 Skid 18, Contained on pad	Crude	5	Sorbents used, gravel scraped up. sorbents to nsb burnable dumpster, gravel to pad 3.	Incineration/approved Landfill	
8/2/90	90360921402	ARCO Alaska, Inc.	y	FS 1, Contained on pad	Antifreeze	5	Loader removed gravel, took to pad 3 sw pit.	Approved Landfill	Leak from heat trace system.
8/12/90	90360222402	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Produced water	5	Hand shovels removed gravel. taken to pad 3 sw pit.	Approved Landfill	Flange leak.
8/13/90	90360922501	Canadian Fracmaster Ltd.	y	DS 15, SE corner under pump, Gravel on pad	Methanol	5	Absorbents used on liquid, removed gravel. incinerated.	Incinerated	Operator flooded capped line. Line blew spilling 50/50 methanol and water.
8/17/90	90360122901	BPXA	y	GC 3, module 484, Contained on pad	Crude	5	Absorbents used, gravel removed. sorbents to nsb incin., gravel to arco pad 3.	Incineration/approved Landfill	Drain hose being drained into drum which overflowed.
8/17/90	90360122902	BPXA	y	GC 2, skid 510, 450, Contained on pad	Crude	5	Absorbents used, gravel removed. sorbents to nsb incin., gravel to arco pad 3.	Incineration/approved Landfill	High winds blew oil/water from barrel and berm.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/24/90	90360123601	BPXA	y	K Pad Well 5, Contained on pad	Diesel	5	Gravel removed, taken to arco pad 3.	Approved Landfill	Located during routine pad inspection.
9/8/90	90360125101	ARCO Alaska, Inc.	y	DS 9 Well 1, Contained on pad	Diesel	5	Super sucker removed gravel, taken to pad 3.	Approved Landfill	
9/13/90	90360125603	ARCO Alaska, Inc.	y	DS 9, Contained on pad	Hydraulic oil	5	Absorbents used, incinerated nsb.	Incinerated	Rock broke filter off.
9/25/90	90360126702	ARCO Alaska, Inc.	y	CCP, Contained on pad	Engine lube oil	5	Absorbents, loader, rake used to remove fluid, gravel. absorbents to nsb incin., gravel to pad 3.	Incineration/approved Landfill	
9/28/90	90360127101	Cold Weather Contractors	y	DS C mine site, No tundra or water	Hydraulic oil	5	Absorbents used, gravel bagged, put in borough dumpster at cpf 1.	Approved Landfill	Solder did not hold on loader line.
10/14/90	90360128701	BPXA	y	R Pad Well 26, Gravel pad	Diesel	5	Material removed, taken to a3w2.	Approved Landfill	
10/26/90	90360129902	Alaska Petroleum Contractors	y	J Pad DS maintenance, Snow/ice on gravel 4 x 6	Crude	5	Loader removed snow/ice, small amount gravel. taken to pad 3.	Approved Landfill	50-50 crude/water.
10/27/90	90360130003	Peak Oilfield Services	m	Not given, Not given	Diesel	5	Completely cleaned-no method given. disposal not given.	Not Given	On recorder. Info sketchy.
11/7/90	90360231102	Conoco	y	L2 well on L pad, Contained on pad	Seawater	5	Snow/gravel removed. recycled at rig sandtrap.	Recycled	Brine water.
11/17/90	90360132104	ARCO Alaska, Inc.	y	FS 1 Module 4944, Contained on snow on pad	Crude	5	Jack hammers and shovels removed material. taken to pad 3 sw pit.	Approved Landfill	17% crude, 83% produced water. Volume 27 gal.
11/20/90	90360132401	Alaska United Drilling	y	DS 15, Well 4, Contained on pad	Diesel	5	Absorbents used, snow removed by loader. snow put in container.	Interim Containment	
12/2/90	90360233601	Alaska Petroleum Contractors	y	DS 3 near well 26, 5 x 5 area snow and ice on pad	Seawater	5	Snow/ice removed with shovels, put in drum, reused.	Recycled	
12/9/90	90360134301	ARCO Alaska, Inc.	y	COTU, On Pad	Diesel	5	Absorbents used, hand shovels. snow melted, reused. absorbents held pending disposal.	Multiple	
12/21/90	90360235501	VECO	y	Nabor's Rig 2ES LGI drill site, 3 x 10	Seawater	5	Shovels used. material put in lined cuttings box. taken to arco pad 3.	Approved Landfill	Packing leak around agitator shaft.
12/27/90	90360136101	ARCO Alaska, Inc.	y	DS 16 Well 19, 2 x 5 snow on gravel pad	Hydraulic oil	5	Shovels used. snow melted, taken to pad 3 for injection.	Subsurface Injection	
1/3/91	91360100303	Alaska Petroleum Contractors	y	C Pad, contained on pad	Hydraulic oil	5	Snow and ice removed, absorbants removed put into barrel absorbants to nsb dumpsters	Multiple	Lever left in auto position, oil overheated, vented.
1/5/91	91360100501	ARCO Alaska, Inc.	y	C Pit storage area, Contained on pad	Crude	5	Fluid, gravel placed in sand trap tank. will wash gravel and recycle. liquids to 2z recycle, solids to 1h sw pit.	Multiple	Open flange on tank.
1/14/91	91360101401	ARCO Alaska, Inc.	y	STP, Contained on pad	Hydraulic oil	5	Loader removed snow, melted, injected pad 3.	Subsurface Injection	
1/19/91	91360101901	BPXA	y	GCI Dirty Water tank, Contained on pad	Crude	5	Loader, bucket used. taken to t pad, held for summer recovery.	Interim Containment	Either residual fluid in line or valve not closed all the way.
1/21/91	91360102101	ARCO Alaska, Inc.	y	Sag River Bridge, Contained on snow and ice	Diesel	5	Shovels, pads used. material recycled at fs 1.	Recycled	Material sloshed out of top of tanker.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/4/91	91360903501	BPXA	y	WSW Skid 309, Contained on pad	Antifreeze	5	Material removed, taken to t pad waste pit for recovery and disposal.	Multiple	Valve on sampling tube.
2/12/91	91360104303	BPXA	y	WSW Pad Dirty water tank, Contained on pad	Crude	5	Shovel removed material, took to nsb incinerator.	Incinerated	Material found by vac truck driver.
2/18/91	91360904902	BPXA	y	GC 1 Skid 31, Contained on pad	Emulsion breaker	5	Material scraped up, bagged, taken to a3w2 melter for separation.	Not Given	VECO contractor.
3/2/91	91360106102	ARCO Alaska, Inc.	y	U 4B, Snow on pad	Hydraulic oil	5	Loader used. material injected pad 3.	Subsurface Injection	
3/3/91	91360106204	Peak Oilfield Services	y	Pad 3, Ice pad	Diesel	5	Loader removed snow/ice, taken to pad 3 ow pit.	Approved Landfill	Residual leaked during offloading.
3/3/91	91360906201	ARCO Alaska, Inc.	y	DS 17, Well 14, 4 x 4 snow on pad	Methanol	5	Shovels removed snow, melted, taken to pad 3 injection.	Subsurface Injection	Pump leak.
3/3/91	91360906202	BPXA	y	BOC Pad CC-1, Contained on pad	Antifreeze	5	Snow/ice removed by loader. taken to a3w2 melter.	Interim Containment	Material discovered during routine inspection.
3/8/91	91360106701	Conoco	y	G Pad road, 40-50 sq ft on road	Hydraulic oil	5	Loader removed snow, small amount gravel. put in temp storage berm on e pad.	Interim Containment	Spill not reported to Conoco, they found it during inspection.
3/9/91	91360106802	BPXA	m	Survey Team Figures, No waterways	Engine lube oil	5	Snow removed, incinerated nsb.	Incinerated	
3/15/91	91360907401	BPXA	y	Y Pad, Contained on pad	Methanol	5	Loader, shovels used. contaminates hauled to melter at a3w2.	Interim Containment	Material located under vehicles in transfer area.
3/18/91	91360907703	BPXA	y	F Pad Module 48 F, Contained on pad	Methanol	5	Pick, shovel and morooka used. taken to t pad for summer removal.	Interim Containment	Spill from connection at methanol tank hookup.
3/19/91	91360107801	BPXA	y	R Pad, Contained on pad	Diesel	5	Snow removed by loader, taken to t pad pit.	Approved Landfill	Diesel spots discovered near well houses.
3/19/91	91360907802	BPXA	y	Well 9, Point McIntyre, Contained on pad	Antifreeze	5	Loader, shovels removed material, taken to t pad lined pit.	Interim Containment	Leaks from equipment.
3/21/91	91360908002	BPXA	y	GC 1 WSW, Contained on pad	Antifreeze	5	Loader, shovels used. material taken to t pad lined pit.	Interim Containment	Residue from previous spills.
3/25/91	91360108401	BPXA	y	D Pad Well 27, Contained on pad	Hydraulic oil	5	Loader, shovels used, taken to t pad lined pit.	Interim Containment	Hydraulic, diesel, glycol accumulated on pad during well work.
3/31/91	91360909002	VRCA Environmental	y	West Dock Staging, Point McIntyre, 2 x 5 snow on gravel	Hydraulic oil	5	Absorbents, shovels used. sorbents bagged, put in burnable dumpster, fluid incin. at shop.	Incinerated	
4/1/91	91360109103	BPXA	y	D Pad, Contained on pad	Hydraulic oil	5	Ice/snow removed, taken to t pad lined pit for summer recovery.	Interim Containment	Material found during inspections.
4/1/91	91360109104	BPXA	y	F Pad, Contained on pad	Hydraulic oil	5	Loader used, material taken to t pad lined pit for summer recovery.	Interim Containment	Found under snow layer during site cleanup.
4/3/91	91360109302	Colville Inc.	y	COTU, 2 x 3 snow on gravel	Diesel	5	Loader scooped up snow and absorbents. put in waste container barrels. liquid recycled, sorbents incinerated.	Multiple	Valve didn't open.
4/7/91	91360109701	BPXA	y	G Pad Well 31, Contained on snow on pad	Diesel	5	Loader removed snow, took to t pad pit.	Interim Containment	Discovered during pad inspection.
4/7/91	91360109703	BPXA	y	F Pad Well 18, Snow on pad	Diesel	5	Loader removed snow, taken to a3w2 for recovery.	Recycled	Spilled during flowline work.
4/10/91	91360110002	BPXA	y	Y Pad Well 30, Contained on pad	Crude	5	Loader scraped up contaminants, took to t pad pit for spring recovery.	Interim Containment	Located during routine inspection.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/15/91	91360110501	BPXA	y	Between Pads Y and P on ice road, Contained on pad	Hydraulic oil	5	Material removed by loader, taken to melt tank.	Interim Containment	
5/3/91	91360112302	Alaska Petroleum Contractors	y	FS 1 slop oil tank, 5 x 5 on snow	Crude	5	Snow shovelled into bags, taken to melt tank, then recycled fs 1.	Recycled	
5/11/91	91360113101	ARCO Alaska, Inc.	y	DS 5 Well 25, Gravel/snow on pad	Diesel	5	Hand shovels, loader used. absorbents/gravel/snow put in overpack drums, taken to haz waste storage.	Interim Containment	
5/11/91	91360113102	BPXA	y	H Pad Mod 54, Contained on pad	Hydraulic oil	5	Shovels removed contaminants, bagged, taken to a3w2 melt tank for separation.	Interim Containment	During wind storm, air breather on compressor froze up, building up pressure.
5/17/91	91360113703	ARCO Alaska, Inc.	y	DS 9 Well 18, Gravel pad	Crude	5	Absorbents, vac truck used. gravel to pad 3 swp, liquid injected pad 3. sorbents to nsb incin.	Multiple	On recorder.
5/21/91	91360114102	BPXA	y	A Pad Well 30, Contained on pad	Crude	5	Contaminants removed, taken to arco pad 3 ow facility.	Approved Landfill	Winter work on well left multiple spots of crude visible after thaw.
5/30/91	91360115008	ARCO Alaska, Inc.	y	DS 3 Well 3, 15 x 15 on pad	Crude	5	Super sucker, shovels, absorbents. taken to pad 3 sw pit.	Approved Landfill	Coiled tubing nozzle leaked 20 gal. 85% fresh water, 15% crude.
5/31/91	91360115104	ARCO Alaska, Inc.	y	DS L-5 Pad 9, Gravel pad	Crude	5	Loader used. disposal not given.	Not Given	Tanker leaked.
6/14/91	91360116501	ARCO Alaska, Inc.	y	DS 12, 10 x 10 tundra	Unknown	5	Vac truck removed brown froth, sorbents removed sheen. fluid to fs 1 for recycle, sorbents to nsb incin.	Multiple	Brown froth and slight sheen on tundra marsh at edge of pad. Will continue to monitor.
6/14/91	91360116502	ARCO Alaska, Inc.	y	DS 17 Well 1, Contained on pad	Diesel	5	Absorbents used, taken to nsb incin.	Incinerated	Leak on suction side of pump.
6/14/91	91360116503	BPXA	m	Skid 85, Contained on pad	Diesel	5	Gravel scraped up, taken to arco pad 3 swp.	Approved Landfill	
6/15/91	91360116604	ARCO Alaska Inc.	y	DS 16, Contained on pad	Crude	5	Cleaned up, gravel taken to swp	Approved Landfill	On recorder. While pressing M1 gas line, rates got excessive, splashing oil.
6/16/91	91360116703	ARCO Alaska, Inc.	y	DS 14, Contained on pad	Diesel	5	Super sucker used. gravel to pad 3 swp.	Approved Landfill	95% water (total vol. 50 gal) leaked when snowmelt flooded well cellar and ran onto pad.
6/20/91	91360117101	CONAM	m	Lease Hold Block 400 Lot 2B, 15 x 30 ft sheen drainage water between pads	Diesel	5	Absorbent boom, absorbents. gravel removed, taken to gravel burner. sorbents to nsb burnable dumpster.	Incinerated	Equip. leaks, leaking hose on fuel tank discovered during breakup.
6/21/91	91360117202	ARCO Alaska, Inc.	y	SIP, Contained on pad	Engine lube oil	5	Shovel removed gravel, taken to pad 3 sowp.	Approved Landfill	
6/23/91	91360117404	ARCO Alaska, Inc.	y	DS 4 Well 28, Gravel	Diesel	5	Absorbent, shovels used. sorbents to nsb incin., gravel to c pad for shimpment to tsd facility.	Multiple	Hole in pump of secondary containment tank.
6/24/91	91360117501	Cold Weather Contractors	m	East Stockpile, 300 yds E. of Kuparuk River., 20 ft gravel road	Hydraulic oil	5	Loader removed gravel, put in pit liner, then to 1h.	Interim Containment	
6/24/91	91360217501	Halliburton Services	y	DS 3 Well 21, 10 sq ft gravel pad	Gelled water	5	Sorbents used, water picked up, taken to slop tank, then injected pad 3.	Subsurface Injection	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/28/91	91360117901	ARCO Alaska, Inc.	y	FS 3 Mod 4932, Contained on pad	Engine lube oil	5	Absorbents, super sucker used. pads to nsb incin., gravel to pad 3 swp.	Incineration/approved Landfill	
7/3/91	91360118402	ARCO Alaska, Inc.	y	Surfcoat, Pad	Diesel	5	Loader removed gravel, took to pad 3 sowp.	Approved Landfill	Pipe uprooted during bioremediation.
7/4/91	91360118502	BPXA	y	J Pad 18 area, Contained on pad	Diesel	5	Contaminants shoveled up, bagged, taken to t pad lined pit.	Interim Containment	Tiger tanks and trucks leaked onto parking area.
7/9/91	91360119002	ARCO Alaska, Inc.	m	SW Pit, 80 sq ft	Crude	5	"cleaned up." no method or disposal given.	Not Given	On recorder. Vac truck probably source of spill.
7/15/91	91360119601	Conam	m	Shell Road, Not given	Diesel	5	"cleaned up." no method given. placed in non-burnable dumpster.	Approved Landfill	On recorder. Diesel and water spilled when water truck overflowed.
7/17/91	91360119803	Rockford Corp.	y	FS 3, 40 sq ft soil	Hydraulic oil	5	Absorbents used, 1 cu. ft. gravel removed, put in drums. drums to be stored on pad until cleaned by aic.	Interim Containment	Barrel upset damaged containment line. 2" soil penetration.
7/19/91	91360920001	BPXA	y	GC2 452, Contained on pad	Other	5	Material removed, taken to t pad lined pit.	Approved Landfill	Emulsion breaker spilled while hose being disconnected.
7/20/91	91360120103	BPXA	m	Price Pad NE, 5 sq ft tundra	Heavy grease	5	Shoveled contam. into loader. vegetation wiped clean and will burn top of vegetation. contaminants to pad 3.	Multiple	Discovered damaged 5 gal. bucket of gear oil during inspection.
7/23/91	91360920401	VECO	y	STP, 5 sq ft gravel	Antifreeze	5	Loader used. gravel placed in open top tank, then 1h.	Approved Landfill	Blew hatch on truck spilling tritherm.
7/25/91	91360120603	BPXA	y	Wellhouse 2-68, Gravel	Diesel	5	Gravel scraped up, put in oily gravel disposal area.	Approved Landfill	Valve open while pressure testing.
7/28/91	91360920901	ARCO Alaska, Inc.	y	MCC, 1 x 1.5 gravel	Antifreeze	5	Absorbents, hand shovels used. sorbents incin. nsb, gravel to pad 3.	Multiple	Leaking line in glycol system. 50 gal. spilled in bldg.
8/10/91	91730122205	Peak Oilfield Service Co.	y	COTU ARCO fuel dock, Gravel pad	Diesel	5	Absorbents, loader used. gravel being held pending tests. testing done by kic and aic. aic burned gravel in their incin.	Incinerated	
8/12/91	91730122405	BPXA	y	K Pad K9, Contained on pad	Diesel	5	Loader used. material taken to a3w2 melter for recovery.	Recycled	Tioga heater leaked during fluid transfer.
8/16/91	91730122802	ARCO Alaska, Inc.	y	DS 11 Well 1, Gravel	Engine lube oil	5	Shovels, sorbents used. gravel to pad 3 sowp, pads incinerated nsb.	Incineration/approved Landfill	
8/18/91	91730123001	BPXA	y	R Pad R-19, Contained on pad	Diesel	5	Sorbents, shovels used. sorbents to nsb incin., gravel to a3w2 for recovery.	Multiple	
8/20/91	91730923201	BPXA	y	CPS Skid 141, Contained on pad	Antifreeze	5	Morooka scraped up gravel. gravel taken to t pad owp.	Approved Landfill	When barrels of used glycol moved, fluid splashed out.
8/22/91	91730123401	Peak Oilfield Services	y	GC 2, Gravel	Crude	5	Absorbents, loader used. taken to pad 3.	Approved Landfill	95% water, 5% crude, total volume 25 gal.
8/26/91	91730223801	ARCO Alaska, Inc.	y	DS 9, Contained on pad	Gelled water	5	Hand shovels removed gravel, cleaned and reused.	Recycled	Coiled tubing developed leak during cleanout operation.
9/5/91	91730124801	Alaska Petroleum Contractors	y	DS 11 near Well 17, 7 x 7 gravel	Diesel	5	Loader removed gravel. returned to pad after washing.	Recycled	High winds blew mud flap off truck which hit valve and opened it.
9/5/91	91730124802	BPXA	y	X Pad Pigging Pit, Gravel dike wall	Crude	5	Gravel removed with loader, taken to arco pad 3.	Approved Landfill	Material sprayed on pit dike wall due to wind.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/19/91	91730126203	BPXA	y	Y Pad Well 23, Contained on pad	Crude	5	Loader removed gravel, taken to arco pad 3.	Approved Landfill	O ring failure.
9/24/91	91730126701	ARCO Alaska, Inc.	y	DS 7, Not given	Transmission oil	5	Absorbents used, put in barrel pending testing.	Interim Containment	On recorder.
9/25/91	91730126801	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Crude	5	Vac truck removed liquid and gravel. taken to pad 3.	Approved Landfill	Spray from pig launcher during draining.
9/28/91	91730127104	VECO	m	ARCO fuel dock, 6 x 6 ice/snow	Diesel	5	Absorbents used, loader removed snow/ice. pads incinerated, snow/ice put in cuttings box, taken to arco pad 3.	Incineration/approved Landfill	On recorder.
9/28/91	91730927103	BPXA	y	D Pad Well 9, Contained on pad	Antifreeze	5	Shovels removed material, bagged, taken to a3w2 for washing.	Recycled	
10/13/91	91730128602	BPXA	y	Y Pad, Contained on pad	Hydraulic oil	5	Shovels, loader used. material hauled to t pad lined pit.	Interim Containment	
10/13/91	91730128603	BPXA	y	Spine Rd B Pad Access, Contained on road	Crude	5	Loader removed snow/gravel, hauled to t pad lined pit.	Interim Containment	Mixture 50/50 diesel/crude spilled when H.B. & R. rig had to slow abruptly and fluid sloshed out of sump.
10/15/91	91730128802	ARCO Alaska, Inc.	y	DS 16 Well 13, Gravel pad on snow	Diesel	5	Material picked up, recycled.	Recycled	Fitting broke off during wireline op.
10/22/91	91730129503	BPXA	y	A Pad Well 15, Contained on pad	Diesel	5	Loader, shovels removed material. taken to t pad lined pit.	Approved Landfill	5 gal diesel, 5 gal seawater for total volume of 10 gal.
10/22/91	91730129504	BPXA	y	DS 9 Well 28, Contained in reserve pit	Condensate	5	Condensate skimmed off snow with shovels and brooms. taken to pad 3.	Approved Landfill	Venting out of tank, wind carred mist.
10/24/91	91730129703	BPXA	y	U Pad behind Production Module, Contained on pad	Crude	5	Absorbents used, snow/gravel removed. sorbents to nsb incin., snow/gravel to a3w2.	Incineration/approved Landfill	Plug of oil/water blew out discharging crude/water for volume of 10 gal.
11/1/91	91730130501	ARCO ALASKA, INC.	y	CGF, SNOW ON GRAVEL	Hydraulic oil	5	Absorbents, shovels; snow/gravel removed; pads to nsb incinerator; snow/gravel to pad 3.	Approved Landfill	
11/1/91	91730130503	BPXA	y	GC 1 Skid 497, Contained on pad	Hydraulic oil	5	Snow removed by loader, taken to a3w2 melt tank for recovery.	Recycled	Valve froze on compressor.
11/14/91	91730931801	BPXA	y	F Pad Well 36, Contained on pad	Methanol	5	Snow/gravel removed by loader, put in mud box. surrounding snow melted and vac'd up. gravel taken to pad 3 owp	Multiple	Crack in body of tiger tank.
11/20/91	91730932401	BPXA	y	D Pad Well 5, Contained on pad	Other	5	Material removed, taken to pad 3 lined pit.	Approved Landfill	Biozan.
11/22/91	91730132602	ARCO Alaska, Inc.	y	Between DS 14 & DS 6 on spine rd., Not given	Other	5	Snow removed, awaiting tcllp analysis.	Interim Containment	On recorder. Some type of hydrocarbon.
11/23/91	91730232701	ARCO Alaska, Inc.	y	DS 9, Not given	Produced water	5	Snow removed, taken to melt at pad 3.	Approved Landfill	On recorder. Failed fitting.
11/24/91	91730132802	BPXA	y	GC 1 Skid 45, Contained on pad	Crude	5	Material removed with shovel, bagged, taken to pad 3 lined pit.	Approved Landfill	During removal of heat exchanger, produced water ran out of tubing, crude flaked off outside of tubing coils. 5 gal diesel, 3 gal prod. water.
11/25/91	91730932901	BPXA	y	S Pad well 27, Contained in snow on pad	Methanol	5	Snow shoveled into bags, put in hoding tank for melting and reuse.	Recycled	
12/9/91	91730134302	Nabors Alaska Drilling	y	DS 2-23 Nabors Rig 2ES, 20 x 60 fine film	Engine lube oil	5	Bucket, shovels removed contaminants, taken to t pad for recovery.	Interim Containment	Blown turbocharger on #1 rig engine. Jointly reported by BP.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/12/91	91730134601	BPXA	y	GC 2 Skid 453, Contained on pad	Crude	5	Material cleaned up along with 210 gal. spill in same location 4 days previous. all materials taken to arco pad 3 lined pit.	Interim Containment	Return hose jumped out of tank during prep for clean out of slug catcher.
12/13/91	91730934701	ARCO Alaska Inc.	y	MCC Parking lot, Small pool on snow	Methanol	5	Shoveled snow into buckets, recycled at ds 1.	Recycled	Leak from tanker found in parking lot.
1/24/92	92730102401	ARCO Alaska Inc.	y	CCP, 1/2 cy snow on pad	Hydraulic oil	5	Loader, shovels removed material, recycled fs 1.	Recycled	
1/30/92	92730103001	ARCO Alaska Inc.	y	Lisburne Production Center, 8 cu. yds snow removed	Hydraulic oil	5	Loader removed snow, took to pad 3.	Approved Landfill	
2/2/92	92730103301	VECO	m	ARCO Cirque well #1, Ice pad	Engine lube oil	5	Chipped up oil/ice, bagged will dispose of at veco.	Other	
2/3/92	92730103401	ARCO Alaska Inc.	y	DS 9 pipeline right of way, Not given	Hydraulic oil	5	Snow cleaned up, no method given. taken to pad 3.	Approved Landfill	
2/12/92	92730104301	ARCO Alaska Inc.	y	FS 1 slop oil loading dock, Not given	Crude	5	Loader removed snow/gravel, taken to fs 1 for recycle.	Recycled	80% crude, 20% water slopped out of tank while offloading.
3/5/92	92730106601	ARCO Alaska Inc.	y	DS 1 Well 14, Snow on pad	Crude	5	Shovels, loader used. recycled at fs 1.	Recycled	
3/5/92	92730106602	Colville Inc.	y	COTU, 20 sq ft snow on ice	Diesel	5	Dug up, bagged, taken to melter.	Other	
3/10/92	92730907103	BPXA	y	P Pad 18, Contained on pad	Methanol	5	Most of material shoveled up immediately. loader scraped remaining. material put into dow/schlum melt tank for future disposal.	Interim Containment	
3/12/92	92730107201	ARCO Alaska Inc.	y	Lisburne Production Center, Snow/gravel	Crude	5	Loader removed snow/gravel. snow melted, injected pad 3.	Subsurface Injection	
3/13/92	92730907301	BPXA	y	F Pad, Contained on pad	Methanol	5	Loader used, hauled to melt tank at a3/w2.	Interim Containment	Possible improper loading procedures.
3/17/92	92730107704	BPXA	m	Remote Location, Unknown	Transmission oil	5	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/19/92	92730907901	BPXA	m	Remote Location, Unknown	Antifreeze	5	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/23/92	92730108301	ARCO Alaska Inc.	y	DS 3 Well 20, 10 x 20 snow/gravel	Crude	5	Loader used. material melted, injected pad 3.	Subsurface Injection	
3/25/92	92730108501	BPXA	m	Remote Location, Sea ice	Transmission oil	5	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
4/1/92	92730109201	ARCO Alaska Inc.	y	DS L5 Well 9, Pad	Diesel	5	Shovels used. melted; recycled and incinerated nsb.	Multiple	
4/1/92	92730909201	ARCO Alaska Inc.	m	Flow line 532, Pad	Other	5	Shoveled up material, taken to pad 3.	Approved Landfill	80% parafin cutter, 20% diesel, 1% methanol.
4/6/92	92730109802	BPXA	m	Mile 20, ice road, north side, No damage known	Transmission oil	5	Snow removed, backhauled to nsb incinerator.	Incinerated	Equipment leaks.
4/24/92	92730211503	Alaska Petroleum Contractors	y	DS 16 Well 20, Snow and ice on pad	Seawater	5	Shoveled up, put in open top tank at pad 3.	Interim Containment	
4/28/92	92730912001	BPXA	y	Z Pad wells 15 & 18, Contained on pad	Methanol	5	Loader, grader removed material, taken to t pad lined pit for summer recovery.	Interim Containment	Found during routine pad inspection.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/29/92	92730112101	BPXA	m	Childs Pad Deadhorse, Contained on pad	Diesel	5	Absorbents used, put in burnable dumpster.	Incinerated	
4/30/92	92730912201	Alaska Petroleum Contractors	y	ARCO Central Compressor Plant, 4 x 4 snow on gravel	Antifreeze	5	Absorbents, shovels used. taken to apc facility deadhorse for incin.	Incinerated	Crane.
5/2/92	92730112401	ARCO Alaska Inc.	y	DS 2 Well 2, 3 x 4	Crude	5	Pads, bucket used. material melted, taken to fs 2. pads to nsb incin.	Incineration/approved Landfill	
7/3/95	95399918401	ARCO	y	EAST PRUDHOE, CCP,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
7/16/95	95399919701	ARCO	y	Seawater Injection Plant (SIP),	Diesel	5	Took Report, Case Closed 01-00-00		Valve Failure
7/18/95	95399919902	BPXA	ym	West Prudhoe Bay BETWEEN WELL 2-70 & 241 PIPERACK,	Crude	5	Took Report, Case Closed 01-00-00		Valve Failure
7/30/95	95399921102	VECO	ym	SPINE ROAD, DEADHORSE,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 01-00-00		Collision/Allision
8/13/95	95399922501	BPXA	y	West Prudhoe Bay, GC 1,	Other	5	Phone Follow-up, Case Closed 01-00-00		Line Failure
9/18/95	95399926102	ARCO ALASKA INC.	y	East Prudhoe Bay, LPC,	Used Oil (all types)	5	Took Report, Case Closed 01-00-00		Leak
10/7/95	95399928002	NORCON, INC.	y	East Prudhoe Bay, ARCO MAIN CONST. CAMP,	Diesel	5	Took Report, Case Closed 01-00-00		Line Failure
11/28/95	95399933201	BPXA	y	West North Slope, BOC PAD,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
12/6/95	95399934002	BPXA	y	West North Slope, BOC BULL RAIL,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
12/11/95	95399934503	BPXA	y	West Prudhoe Bay, E PAD WELL 20,	Crude	5	Took Report, Case Closed 01-00-00		Seal Failure
12/21/95	95399935501	ARCO	y	East Prudhoe Bay, DS 7,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
1/17/96	96399901703	BPXA	y	DS 15, WELL 42,	Diesel	5	Took Report, Case Closed 01-00-00		Human Error
1/23/96	96399902301	PEAK OILFIELD SERVICE CO.	y	East Prudhoe Bay, DRILL SITE 15,	Hydraulic Oil	5	Took Report, Case Closed 01-23-96		Line Failure
2/9/96	96399904003	BPXA	ym	EAST NORTH SLOPE, ENDICOTT WELL 1-67,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Valve Failure
2/10/96	96399904102	ARCO	y	East Prudhoe Bay, SRT PAD,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Overfill
2/11/96	96399904203	ARCO	ym	East Prudhoe Bay, KCC NORTH BULLRAIL,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 01-00-00		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/16/96	96399904701	ARCO	y	Well Pad C,	Diesel	5	Took Report, Case Closed 01-00-00		Valve Failure
2/17/96	96399904802	BPXA	y	West Prudhoe Bay, ICE ROAD NEAR R PAD,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Equipment Failure
2/24/96	96399905501	ARCO	y	East Prudhoe Bay, CCP,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
3/3/96	96399906301	BPXA	y	West Prudhoe Bay, GC 1,	Other	5	Took Report, Case Closed 01-00-00		Seal Failure
3/18/96	96399907802	ARCO	y	East Prudhoe Bay, DS 4,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Seal Failure
3/19/96	96399907901	BPXA	y	DS 15,	Other	5	Took Report, Case Closed 01-00-00		Leak
3/28/96	96399908803	PRUDHOE BAY HOTEL	ym	SPINE RD AT 100% PAD,	Diesel	5	Phone Follow-up, Case Closed 03-29-96		Rollover/Capsize
4/7/96	96399909801	VECO	y	East Prudhoe Bay, ARCO ICE RD. W. OF SAG RIVER BRI,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 04-09-96		Line Failure
4/13/96	96399910401	BPXA	y	West Prudhoe Bay, F PAD,	Diesel	5	Took Report, Case Closed 01-00-00		Seal Failure
4/15/96	96399910601	BPXA	ym	West Prudhoe Bay, B PAD ACCESS RD.,	Produced Water	5	Took Report, Case Closed 01-00-00		Other
4/18/96	96399910902	BPXA	ym	West Prudhoe Bay, SOURDOUGH POOL AA #4,	Diesel	5	Took Report, Case Closed 01-00-00		Other
5/10/96	96399913102	ARCO	y	East Prudhoe Bay, DS 11,	Crude	5	Took Report, Case Closed 01-00-00		Other
6/1/96	96399915301	ARCO	y	East Prudhoe Bay, DS1 WELL 10,	Crude	5	Took Report, Case Closed 01-00-00		Seal Failure
6/10/96	96399916201	ARCO	y	East Prudhoe Bay, LPC,	Produced Water	5	Took Report, Case Closed 01-00-00		Other
6/16/96	96399916802	BPXA	ym	West Prudhoe Bay, SPINE ROAD,	Diesel	5	Took Report, Case Closed 01-00-00		Leak
7/7/96	96399918902	ARCO	y	East Prudhoe Bay, CGF,	Engine Lube Oil	5	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
8/5/96	96399921802	BPXA	y	West Prudhoe Bay, P PAD WELL 4,	Produced Water	5	Took Report, Case Closed 01-00-00		Equipment Failure
8/19/96	96399923201	BPXA	ym	West Prudhoe Bay,	Produced Water	5	Phone Follow-up, Case Closed 01-00-00		Equipment Failure
8/20/96	96399923301	ARCO	y	DS 13 BYPASS RD.,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Equipment Failure
9/10/96	96399925401	BPXA	y	POINT MCINTYRE,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 01-00-00		Leak
9/20/96	96399926401	BPXA	y	J PAD OUTSIDE SKID 59,	Crude	5	Took Report, Case Closed 01-00-00		Overfill

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/23/96	96399926702	ARCO	y	Drill Site 14,	Crude	5	Took Report, Case Closed 01-00-00		Seal Failure
9/30/96	96399927401	BPXA	y	Well Pad Y,	Crude	5	Took Report, Case Closed 01-00-00		Other
10/9/96	96399928301	ARCO	y	DS 16,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
10/27/96	96399930104	DOWELL SCHLUMBERGER	y	DS 6-23,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 01-00-00		Seal Failure
11/1/96	96399930602	ARCO	y	WEST DOCK ROAD,	Drilling Muds	5	Took Report, Case Closed 01-00-00		Leak
1/17/97	97399901701	ARCO	y	East Prudhoe Bay, MCC,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 01-00-00		Other
2/15/97	97399904601	BPXA	y	East Prudhoe Bay, ARCO SIP,	Other	5	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
2/19/97	97399905001	ARCO	y	East Prudhoe Bay, DS 3,	Crude	5	Took Report, Case Closed 01-00-00		Overfill
3/4/97	97399906301	ARCO	y	East Prudhoe Bay, LPC,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 01-00-00		Equipment Failure
3/8/97	97399906701	ARCO	y	East Prudhoe Bay, CHEM TANK DOCK,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
3/10/97	97399906901	BPXA	y	West Prudhoe Bay Z PAD WELL 33,	Other	5	Phone Follow-up, Case Closed 05-12-97		Leak
3/24/97	97399908302	ARCO	y	Flow Station 2 (FS-2),	Seawater	5	Took Report, Final Report 03-28-97		Leak
3/28/97	97399908701	ARCO	y	East Prudhoe Bay, PBOC,	Ethylene Glycol (Antifreeze)	5	Field Visit/s, Case Closed 01-00-00		Valve Failure
4/28/97	97399911802	B.P.	y	West North Slope, B.P. Well Pad P.,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
5/18/97	97399913802	BPXA	y	West North Slope, BP Well Pad D.,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 11-20-97		Line Failure
5/21/97	97399914101	ARCO	y	EAST NORTH SLOPE, ARCO PM-2.,	Hydraulic Oil	5	Took Report, Case Closed 05-24-97		Other
5/23/97	97399914303	BPXA	ym	West North Slope, BP GC-1 GAS STATION.,	Crude	5	Took Report, Case Closed 07-09-97		Valve Failure
5/26/97	97399914601	BPXA	y	West North Slope, BP Well Pad D,	Turbine Fuel	5	Took Report, Case Closed 06-09-97		Cargo Not Secured

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/4/97	97399915503	BPXA	y	West North Slope, BP Well Pad C.,	Diesel	5	Took Report, Case Closed 07-07-97		Unknown
7/16/97	97399919701	ARCO	y	EAST NORTH SLOPE, ARCO DS 15,	Crude	5	Took Report, Case Closed 01-00-00		Other
7/19/97	97399920001	ARCO	y	EAST NORTH SLOPE, ARCO DS18.,	Diesel	5	Took Report, Case Closed 01-00-00		Valve Failure
7/19/97	97399920002	DOWELL SCLUMBERGER	y	EAST NORTH SLOPE, ARCO(DOWELL SCHLUMBERGER) DS 4.,	Drilling Muds	5	Took Report, Case Closed 01-00-00		Valve Failure
7/31/97	97399921201	ARCO	ym	EAST NORTH SLOPE. ARCO - NABORS DRILLING.,	Other	5	Phone Follow-up, Case Closed 07-31-97		Valve Failure
8/6/97	97399921802	BPXA	y	West North Slope, BP Well Pad E.,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Valve Failure
8/10/97	97399922201	DOWELL SCHLUMBERGE	ym	West Prudhoe Bay,ARCO/DOWEL SCHLUMBERGE.,	Hydraulic Oil	5	Took Report, Case Closed 08-10-97		Seal Failure
10/4/97	97399927701	BPXA	y	EAST NORTH SLOPE, B.P. GC-1 PAD,	Emulsion Breaker	5	Took Report, Case Closed 11-12-97		Gauge/Site Glass Failure
10/8/97	97399928101	ARCO	y	EAST NORTH SLOPE, ARCO PM1.,	Drag Reducing Agent	5	Took Report, Case Closed 01-00-00		Line Failure
10/15/97	97399928801	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, DOWELL SCHLUMBERGER DS #6,	Crude	5	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
11/23/97	97399932701	ARCO	y	EAST NORTH SLOPE, ARCO PAD 9.,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Line Failure
12/5/97	97399933901	ARCO	y	EAST NORTH SLOPE, ARCO/VECO DS 9 WELL 36,	Crude	5	Took Report, Case Closed 01-00-00		Human Error
12/8/97	97399934203	ARCO	y	EAST NORTH SLOPE, ARCO EOA CGF.,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 01-00-00		Leak
1/3/98	98399900301	ARCO	ym	EAST NORTH SLOPE, ARCO ACCESS ROAD.,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Leak
1/13/98	98399901302	B.P.	y	West North Slope, B.P. Well Pad Q.,	Seawater	5	Took Report, Case Closed 01-00-00		Leak
2/22/98	98399905302	BPXA	ym	EAST NORTH SLOPE, BP ARCO SRILL SOTE 09.,	Seawater	5	Took Report, Case Closed 03-20-98		Leak
3/5/98	98399906401	BPXA	ym	West North Slope, BP, GC-1 GAS STATION.,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 01-00-00		Leak
3/9/98	98399906803	ARCO	y	EAST NORTH SLOPE, ARCO LPC PAD.,	Produced Water	5	Took Report, Case Closed 01-00-00		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/17/98	98399907602	B.P.	y	EAST NORTH SLOPE, B.P.Well Pad B.,	Crude	5	Took Report, Case Closed 01-00-00		Line Failure
4/6/98	98399909601	B.P.	y	West North Slope, B.P. GC1-PAD.,	Other	5	Took Report, Case Closed 04-09-98		Seal Failure
4/7/98	98399909702	B.P.	y	EAST NORTH SLOPE, B.P. Well Pad G.,	Crude	5	Took Report, Case Closed 01-00-00		Line Failure
4/29/98	98399911901	B.P.	y	EAST NORTH SLOPE, B.P. SURCOTE PAD.,	Drilling Muds	5	Took Report, Other 12-03-99		Overfill
5/4/98	98399912401	B.P.	y	EAST NORTH SLOPE, B.P. Well Pad K.,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Leak
6/13/98	98399916402	ARCO/DOWELL	ym	EAST NORTH SLOPE, ARCO/DOWELL,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Leak
6/21/98	98399917201	B.P.	y	EAST NORTH SLOPE, B.P. Well Pad R.,	Hydraulic Oil	5	Took Report, Case Closed 07-09-98		Leak
6/26/98	98399917702	ARCO	y	East Prudhoe Bay, PAD 10.,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 01-00-00		Overfill
7/3/98	98399918401	VECO/ARCO	y	EAST NORTH SLOPE, ARCO DRILL SITE 11, WELL 27.,	Diesel	5	Took Report, Case Closed 01-00-00		Leak
7/19/98	98399920002	B.P.	y	West North Slope, BOC PAD.,	Corrosion Inhibitor	5	Took Report, Case Closed 07-28-98		Leak
8/14/98	98399922602	BPXA	y	East Prudhoe Bay, BP, Well Pad K,	Other	5	Field Visit/s, Case Closed 06-30-99		Unknown
9/3/98	98399924601	BPXA	ym	East Prudhoe Bay, ENDICOTT, SDI 4-14,	Produced Water	5	Took Report, Case Closed 09-04-98		Human Error
10/2/98	98399927501	DOWELL	y	West Prudhoe Bay, BP, Well Pad C,	Methyl Alcohol (Methanol)	5	Phone Follow-up, Case Closed 01-00-00		Human Error
11/18/98	98399932201	BPXA	y	West Prudhoe Bay, BP, GC-1 PAD,	Diesel	5	Took Report, Case Closed 11-25-98		Line Failure
12/20/98	98399935401	ARCO	y	EAST NORTH SLOPE, ARCO, DS 16,	Diesel	5	Took Report, Case Closed 01-05-99		Equipment Failure
1/11/99	99399901101	CATCO	ym	BP,RED DOG ICE ROAD,	Hydraulic Oil	5	Took Report, Case Closed 01-20-99		Vehicle Leak, All
2/14/99	99399904502	AIC/ARCO	ym	BP, KUPARUK RIVER BRIDE AREA,	Diesel	5	Took Report, Case Closed 02-20-99		Other
8/22/99	99399923405	ARCO ALASKA	y	East Prudhoe Bay, WEST DOCK ROAD & OSBOW INTERSECT,	Hydraulic Oil	5	Took Report, Case Closed 08-22-99		Line Failure
9/13/99	99399925601	ALASKA PETROLEUM CONTRACTORS	y	BP, WOA,Well Pad B,	Diesel	5	Took Report, Case Closed 09-20-99		Vehicle Leak, All

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/14/99	99399925703	ALASKA PETROLEUM CONTRACTORS	y	West Prudhoe Bay, C PAD WELL 22,	Diesel	5	Took Report, Case Closed 09-15-99		Leak
9/16/99	99399925901	BPXA	y	BP, PBU, Well Pad D,	Diesel	5	Took Report, Case Closed 09-22-99		Unknown
9/16/99	99399925902	BPXA	y	Well Pad C,	Diesel	5	Took Report, Case Closed 09-20-99		Vehicle Leak, All
9/25/99	99399926801	POOL ARCTIC ALASKA	ym	West North Slope, DRILLING POOL 6/PAD 10 WELL #14,	Drilling Muds	5	Took Report, Case Closed 09-25-99		Containment Overflow
10/23/99	99399929601	VECO ALASKA	y	West North Slope, DS-11 WELL 25,	Other	5	Took Report, Case Closed 10-23-99		Equipment Failure
10/29/99	99399930201	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, ARCO DS 15-19A,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 10-29-99		Valve Failure
11/2/99	99399930602	LITTLE RED SER/ARCO ALASKA	y	East Prudhoe Bay, DS-12 #28,	Other	5	Took Report, Case Closed 11-02-99		Seal Failure
12/7/99	99399934101	IPM SCHLUMBERGER/ARCO ALASKA	y	West Prudhoe Bay, ARCO DRILL SITE 2 WELL 32,	Crude	5	Took Report, Case Closed 12-22-99		Corrosion
1/4/00	00399900401	ARCO ALASKA	y	West Prudhoe Bay, L-PAD, L4,	Crude	5	Took Report, Case Closed 1/0/2000		Unknown
1/25/00	00399902501	WESTERN GEOPHYSICAL/ ARCO	y	East Prudhoe Bay, AURORA PROSPECT 3-D,	Hydraulic Oil	5	Took Report, Case Closed 01-26-00		Seal Failure
2/12/00	00399904301	ARCTC CATER/NUIQSUT CONST/ARCO	ym	West North Slope, PARKER 141, 8 ACRE PAD,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 02-12-00		Line Failure
2/14/00	00399904504	BPXA	y	West Prudhoe Bay, Well Pad U,	Diesel	5	Took Report, Case Closed 02-15-00		Valve Failure
3/4/00	00399906404	BPXA	y	West Prudhoe Bay, GC-2 PAD,	Diesel	5	Took Report, Case Closed 03-06-00		Seal Failure
3/14/00	00399907402	ARCO ALASKA	y	EAST OPERATING AREA PRUDHOE BAY, DRILLSITE 6,	Hydraulic Oil	5	Took Report, Case Closed 03-16-00		Equipment Failure
3/19/00	00399907901	NABORS DRILLING/BP EXPLORATION	ym	East Prudhoe Bay, EOA DS 17 WELL 10,	Engine Lube Oil	5	Took Report, Case Closed 03-20-00		Line Failure
5/9/00	00399913002	PHILLIPS ALASKA	y	East Prudhoe Bay, PM 2 WELL P2-56,	Hydraulic Oil	5	Took Report, Case Closed 01-00-00		Overfill

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/13/00	00399913402	DOWELL SCHLUMBERGER/PHILLIPS	y	East Prudhoe Bay, DS 18 WELL #27,	Crude	5	Took Report, Case Closed 05-14-00		Seal Failure
6/10/00	00399916201	BPXA	ym	West Prudhoe Bay, Well Pad X, WELL 9,	Hydraulic Oil	5	Took Report, Case Closed 06-11-00		Other
6/24/00	00399917602	BPXA	ym	West Prudhoe Bay, GC-3 PAD, OUTSIDE SKID-8A UNDER,	Crude	5	Took Report, Case Closed 06-27-00		Leak
6/24/00	00399917603	PHILLIPS ALASKA	ym	East Prudhoe Bay, ROAD FROM EAST GUARD SHACK TO PR,	Hydraulic Oil	5	Took Report, Case Closed 06-27-00		Line Failure
6/24/00	00399917601	BPXA	y	West Prudhoe Bay, VMS BLDG YARD,	Diesel	5	Took Report, Case Closed 06-25-00		Equipment Failure
6/28/00	00399918001	ALASKA PETROLEUM CONT/BP EXPLORATIO	ym	East Prudhoe Bay ENDICOTT 305 CHEMICAL LOADING STA,	Crude	5	Took Report, Complaint/Report Received 07-01-00		Gauge/Site Glass Failure
6/29/00	00399918101	PEAK OILFIELD SER/PHILLIPS	y	Drill Site 15,	Diesel	5	Took Report, Case Closed 06-30-00		Other
7/9/00	00399919101	DOWELL SCHLUMBERGER	ym	East Prudhoe Bay, DOWELL SCHLUMBERGER FACILITY,	Hydraulic Oil	5	Took Report, Case Closed 07-10-00		Equipment Failure
7/19/00	00399920103	BPXA	ym	West North Slope, W PAD, WELLHOUSE 18,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 07-24-00		Human Error
7/19/00	00399920101	BPXA	y	West Prudhoe Bay, D PAD WELL 3,	Hydraulic Oil	5	Took Report, Case Closed 07-24-00		Line Failure
7/30/00	00399921201	DOWELL SCHLUMBERGER/PHILLIPS	y	East Prudhoe Bay, PHILLIPS DRILL SITE 6-24,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 07-30-00		Human Error
7/31/00	00399921301	HALLIBURTON/ PHILLIPS	y	EAST NORTH SLOPE DRILL SITE 5-39,	Diesel	5	Took Report, Case Closed 07-31-00		Leak
8/18/00	00399923101	BPXA	y	East Prudhoe Bay, EAST OPERATING AREA, NORTH END O,	Propylene Glycol	5	Took Report, Case Closed 09-14-00		Intentional Release
9/1/00	00399924502	BPXA	y	West Prudhoe Bay, BOC,	Hydraulic Oil	5	Took Report, Case Closed 09-02-00		Other
9/13/00	00399925701	ALASKA CLEAN SEAS	y	East Prudhoe Bay, MCC FUEL DOCK,	Diesel	5	Took Report, Case Closed 09-14-00		Overfill
9/17/00	00399926102	BPXA	y	East Prudhoe Bay, MCC FUEL DOCK,	Diesel	5	Took Report, Case Closed 09-23-00		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/4/00	00399927801	DOWELL SCHLUMBERGER/BP EXPLORATION	y	East Prudhoe Bay, L-PAD, DRILLSITE L2-18,	Crude	5	Took Report, Final Report 10-09-00		Leak
10/27/00	00399930103	AK PETRO CONTRAT/BP EXPLORATION	y	EAST NORTH SLOPE Well Pad Y,	Diesel	5	Took Report, Case Closed 10-27-00		Overfill
12/25/00	00399936001	BPXA	y	West Prudhoe Bay, GATHERING CENTER-3 GAS SECTION,	Other	5	Took Report, Case Closed 01-07-01		Valve Failure
12/29/00	00399936402	BPXA	ym	EAST NORTH SLOPE DRILL SITE 17 FLOW LINE ROAD,	Hydraulic Oil	5	Took Report, Case Closed 12-30-00		Leak
12/29/00	00399936401	PEAK OILFIELD/BP EXPLORATION	y	East Prudhoe Bay, DRILL SITE 17,	Hydraulic Oil	5	Took Report, Case Closed 01-08-01		Equipment Failure
2/7/01	01399903803	BPXA	ym	EAST NORTH SLOPE NIAKUK Well Pad,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 02-07-01		Unknown
2/13/01	01399904402	PEAK OILFIELD SERVICES/ BPX	y	EAST NORTH SLOPE DRILL SITE 05,	Hydraulic Oil	5	Took Report, Case Closed 02-13-01		Line Failure
2/15/01	01399904602	SCHLUMBERGER/ BPX	y	West North Slope Well Pad G,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 02-15-01		Other
2/18/01	01399904903	NORCON/ BPX	y	West North Slope Well Pad S,	Hydraulic Oil	5	Took Report, Case Closed 02-18-01		Line Failure
2/28/01	01399905901	BPXA	y	West North Slope C-PAD,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 02-28-01		Unknown
3/23/01	01399908205	BPXA	y	West North Slope GC-2 Well Pad,	Hydraulic Oil	5	Took Report, Case Closed 03-26-01		Leak
3/25/01	01399908403	HOUSTON/ BP	y	West North Slope NW EILEEN,	Diesel	5	Took Report, Case Closed 03-28-01		Overfill
4/8/01	01399909801	PEAK OILFIELD SERVICES CO.	y	EAST NORTH SLOPE DRILL SITE 5,	Hydraulic Oil	5	Took Report, Case Closed 04-08-01		Line Failure
4/10/01	01399910005	BPXA	y	West North Slope Well Pad X,	Corrosion Inhibitor	5	Took Report, Case Closed 04-10-01		Seal Failure
4/17/01	01399910701	BPXA	y	EAST NORTH SLOPE DRILL SITE 01,	Crude	5	Took Report, Case Closed 04-17-01		Other
4/28/01	01399911803	BPXA	y	West North Slope Well Pad F,	Other	5	Took Report, Case Closed 04-28-01		Overfill

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/27/01	01399914702	SCHLUMBERGER/ BPX	y	EAST NORTH SLOPE DRILL SITE 16,	Solvent	5	Took Report, Case Closed 05-27-01		Leak
5/30/01	01399915001	BPXA	y	West North Slope Well Pad Z,	Diesel	5	Took Report, Case Closed 05-30-01		Unknown
6/3/01	01399915401	VECO ALASKA, INC.	ym	West Prudhoe Bay DOCK, SPINE ROAD,	Transmission Oil	5	Took Report, Case Closed 06-03-01		Line Failure
6/7/01	01399915803	BPXA	y	EAST NORTH SLOPE DRILL SITE 18,	Crude	5	Took Report, Case Closed 06-07-01		Unknown
6/12/01	01399916303	BPXA	ym	West Prudhoe Bay COTU CRUDE OIL TOPPING UNIT,	Ethylene Glycol (Antifreeze)	5	Took Report, Complaint/Report Received 06-12-01		Line Failure
6/12/01	01399916302	BPXA	y	EAST NORTH SLOPE COTU FACILITY,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 06-12-01		Line Failure
6/13/01	01399916401	SCHLUMBERGER- DOWELL	ym	EAST NORTH SLOPE DOWELL YARD,	Diesel	5	Took Report, Case Closed 06-13-01		Leak
6/14/01	01399916502	MI DRILLING ALASKA	ym	West Prudhoe Bay MIX PLANT- SPINE ROAD,	Other	5	Took Report, Case Closed 06-14-01		Puncture
6/30/01	01399918101	SCHLUMBERGER	ym	West North Slope SCHLUMBERGER WIRELINE OFFICE,	Diesel	5	Took Report, Final Report 07-06-01		Other
7/5/01	01399918601	BPXA	ym	EAST NORTH SLOPE EQUIPMENT STAGING,	Hydraulic Oil	5	Took Report, Case Closed 07-05-01		Leak
7/10/01	01399919101	ROCKWELL CORP./ BPX	y	West North Slope GC-2,	Diesel	5	Took Report, Case Closed 07-11-01		Leak
7/16/01	01399919704	ASCI/ BPX	y	West North Slope C PAD,	Engine Lube Oil	5	Took Report, Case Closed 07-20-01		Cargo Not Secured
7/17/01	01399919801	NABORS DRILLING/BP EXPLORATION	ym	West Prudhoe Bay, NABORS RIG 7ES FIRE	Transmission Oil	5	Field Visit/s, Case Closed 09-15-03		Explosion
7/17/01	01399919802	BPXA	ym	West Prudhoe Bay ACCESS ROAD,	Transmission Oil	5	Took Report, Case Closed 07-21-01		Leak
8/29/01	01399924102	BPXA	y	Lisburne Production Center (LPC),	Seawater	5	Took Report, Case Closed 08-30-01		Seal Failure
9/10/01	1399925302	BPXA	y	East Prudhoe Bay, SURFCOTE,	Seawater	5	Took Report		Human Error
9/12/01	01399925501	BPXA	y	West Prudhoe Bay SPINE RD,	Engine Lube Oil	5	Took Report, Final Report 09-13-01		Vehicle Leak, All
9/25/01	01399926802	BPXA	y	Drill Site 4,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 09-28-01		Human Error
11/1/01	01399930502	BPXA	y	Drill Site 13,	Diesel	5	Took Report, Case Closed 11-10-01		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/3/01	01399933703	BPXA	y	East Prudhoe Bay, MCC FUEL DOCK,	Diesel	5	Took Report, Final Report 12-04-01		Valve Failure
12/23/01	01399935701	BPXA	y	East Prudhoe Bay, DS 15,	Crude	5	Phone Follow-up, Final Report 04-01-02		Leak
2/1/02	02399903203	PEAK OILFIELD SER/BP EXPLORATION	y	Well Pad L,	Drilling Muds	5	Took Report, Case Closed 02-04-02		Seal Failure
2/6/02	02399903701	BPXA	y	Drill Site 18,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 02-14-02		Seal Failure
2/10/02	02399904102	BPXA	y	Well Pad S-40,	Diesel	5	Took Report, Case Closed 02-12-02		Leak
2/27/02	02399905801	BPXA	y	Well Pad N,	Hydraulic Oil	5	Took Report, Complaint/Report Received 03-01-02		Unknown
2/28/02	02399905902	BPXA	y	Central Operating Transfer Unit (COTU),	Other	5	Took Report, Final Report 04-01-02		Equipment Failure
3/20/02	02399907904	DOYON DRILLING/ BPX	y	Drill Site 12,	Ethylene Glycol (Antifreeze)	5	Took Report, Case Closed 03-21-02		Line Failure
3/26/02	02399908502	BPXA	y	Well Pad Y, Mod 37,	Seawater	5	Took Report, Final Report 03-27-02		Equipment Failure
4/10/02	02399910001	BPXA	y	Drill Site 12,	Methyl Alcohol (Methanol)	5	Took Report, Final Report 04-16-02		Seal Failure
4/10/02	02399910002	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Drill Site 12,	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 04-16-02		Seal Failure
4/20/02	02399911002	BPXA	y	Drill Site 4,	Hydraulic Oil	5	Took Report, Complaint/Report Received 04-22-02		Seal Failure
4/26/02	02399911602	BPXA	y	Drill Site 4,	Hydraulic Oil	5	Took Report, Case Closed 04-29-02		Equipment Failure
5/3/02	02399912301	BPXA	y	Point McIntyre #1,	Drilling Muds	5	Took Report, Complaint/Report Received 05-03-02		Equipment Failure
5/8/02	02399912801	BPXA	y	Lisburne Production Center (LPC),	Engine Lube Oil	5	Took Report, Final Report 07-02-02		Leak
5/14/02	02399913402	BPXA	y	Pad 3,	Diesel	5	Took Report, Complaint/Report Received 05-14-02		Equipment Failure
5/16/02	02399913602	NORCON/BP EXPLORATION ALASKA	y	Well Pad S,	Crude	5	Took Report, Complaint/Report Received 05-17-02		Human Error
6/2/02	02399915301	BPXA	y	DS 3,	Crude	5	Took Report, Case Closed 06-04-02		External Factors

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/26/02	02399917701	BPXA	y	West Dock,	Hydraulic Oil	5	Took Report, Case Closed 06-28-02		Human Error
7/14/02	02399919503	BPXA	y	Drill Site 1 (DS-1),	Crude	5	Field Visit/s, Field Visit 07-15-02		Unknown
7/19/02	02399920001	H.C. PRICE/PHILLIPS ALASKA	ym	EWE Pipeline,	Corrosion Inhibitor	5	Took Report, Case Closed 07-22-02		Leak
7/30/02	02399921104	BPXA	y	Drill Site 11,	Diesel	5	Took Report, Case Closed 08-26-02		Human Error
7/30/02	02399921104	BPXA	y	Drill Site 11,	Seawater	5	Took Report, Case Closed 08-26-02		Human Error
8/12/02	02399922402	VECO ALASKA/BP EXPLORATION (ALASKA)	ym	SPINE ROAD, DEADHORSE,	Ethylene Glycol (Antifreeze)	5	Field Visit/s, Complaint/Report Received 08-13-02		Line Failure
9/16/02	02399925901	BPXA	y	Well Pad A,	Corrosion Inhibitor	5	Took Report, Final Report 09-17-02		Equipment Failure
9/25/02	02399926802	PEAK OILFIELD SER/BP EXPLORATION	y	Ball Mill Facility,	Seawater	5	Took Report, Final Report 09-25-02		Cargo Not Secured
10/12/02	02399928501	BPXA	y	CGF,	Natural Gas	5	Took Report, Final Report 11-10-02		Equipment Failure
12/25/02	02399935901	SCHLUMBERGER/BP EXPLORATION ALASKA	y	Well Pad K,	Hydraulic Oil	5	Took Report, Final Report 01-27-03		Human Error
12/29/02	02399936301	HALLIBURTON ENERGY SERVICES	y	Drill Site 9 (DS-9),	Methyl Alcohol (Methanol)	5	Phone Follow-up, Final Report 01-16-03		Human Error
1/14/03	03399901401	BPXA	y	East Prudhoe Bay, FS 3,	Diesel	5	Took Report, Case Closed 07-03-03		Vehicle Leak, All
1/15/03	03399901501	PEAK OILFIELD SERVICES CO.	y	LPC Drill Site L1,	Hydraulic Oil	5	Took Report, Final Report 01-16-03		Equipment Failure
1/15/03	03399901502	BPXA	y	West Prudhoe Bay, BP, Z-PAD,	Hydraulic Oil	5	Took Report, Case Closed 01-16-03		Equipment Failure
1/16/03	03399901602	BPXA	y	West Prudhoe Bay, VMS BLDG YARD,	Diesel	5	Took Report, Final Report 01-21-03		Unknown
1/19/03	03399901901	BPXA	y	Main Construction Camp (MCC),	Hydraulic Oil	5	Took Report, Final Report 01-21-03		Vehicle Leak, All
2/23/03	03399905401	BPXA	y	U-11,	Diesel	5	Took Report, Case Closed 03-03-03		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/2/03	03399906101	BPXA	y	Point McIntyre #1,	Methyl Alcohol (Methanol)	5	Phone Follow-up, Case Closed 01-13-05		Human Error
3/10/03	03399906903	BPXA	y	Flow Station 2 (FS-2),	Diesel	5	Took Report, Case Closed 03-11-03		Equipment Failure
4/14/03	03399910403	BPXA	ym	SPINE ROAD, DEADHORSE,	Drilling Muds	5	Took Report, Case Closed 06-03-03		Equipment Failure
4/22/03	03399911203	BPXA	y	Lisburne Production Center (LPC),	Hydraulic Oil	5	Took Report, Case Closed 04-28-03		Line Failure
5/13/03	03399913302	BPXA	y	Well Pad C,	Hydraulic Oil	5	Took Report, Case Closed 05-15-03		Equipment Failure
5/18/03	03399913802	BPXA	y	West Prudhoe Bay SPINE RD,	Hydraulic Oil	5	Took Report, Case Closed 05-20-03		Equipment Failure
5/31/03	03399915102	BPXA	y	Well Pad A,	Hydraulic Oil	5	Took Report, Case Closed 06-03-03		Equipment Failure
6/2/03	03399915301	BPXA	y	Well Pad A,	Crude	5	Took Report, Case Closed 06-04-03		Valve Failure
6/3/03	03399915402	BPXA	y	B PAD,	Crude	5	Took Report, Case Closed 06-04-03		Seal Failure
6/19/03	03399917001	BPXA	y	BP, PBU, Well Pad D,	Biocide	5	Took Report, Case Closed 06-20-03		Overfill
7/2/03	03399918302	BPXA	y	G-19, Well Pad G-19 Spill	Crude	5	Phone Follow-up, Case Closed 07-15-03		Leak
7/17/03	03399919802	BPXA	y	Main Construction Camp (MCC),	Ethylene Glycol (Antifreeze)	5	Took Report, Final Report 08-21-03		Valve Failure
9/27/03	03399927001	BPXA	y	Drill Site 7,	Crude	5	Took Report, Final Report 11-14-03		Leak
10/11/03	03399928401	BPXA	y	Well Pad L,	Hydraulic Oil	5	Took Report, Case Closed 10-13-03		Line Failure
10/20/03	03399929301	BPXA	ym	Checkpoint-East,	Crude	5	Took Report, Case Closed 10-21-03		Human Error
10/26/03	03399929901	BPXA	y	PRICE PAD, WOA,	Diesel	5	Took Report, Case Closed 10-27-03		Line Failure
11/13/03	03399931701	BPXA	y	Well Pad F,	Hydraulic Oil	5	Took Report, Case Closed 11-17-03		Equipment Failure
12/3/03	03399933701	BPXA	y	Well Pad X,	Crude	5	Field Visit/s, Final Report 12-11-03		Equipment Failure
12/13/03	03399934702	BPXA	y	ARCO, J-PAD,	Hydraulic Oil	5	Phone Follow-up, Case Closed 12-17-03		Line Failure
1/10/04	04399901001	BPXA	ym	East Prudhoe Bay, POINT McINTYRE 2,	Engine Lube Oil	5	Took Report, Case Closed 02-05-04		External Factors
1/26/04	04399902601	BPXA	ym	WEST OPERATING AREA, ACCESS ROAD,	Hydraulic Oil	5	Took Report, Case Closed 01-27-04		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/10/04	04399904101	BPXA	y	Well Pad Z,	Diesel	5	Took Report, Case Closed 02-17-04		Leak
2/15/04	04399904604	BPXA	y	FLEET SHOP,	Engine Lube Oil	5	Took Report, Case Closed 02-18-04		Equipment Failure
2/21/04	04399905201	BPXA	y	East Prudhoe Bay PBOC,	Diesel	5	Took Report, Case Closed 02-25-04		Line Failure
3/4/04	04399906401	BPXA	y	Well Pad A,	Corrosion Inhibitor	5	Phone Follow-up, Case Closed 03-05-04		Equipment Failure
4/8/04	04399909901	BPXA	ym	West Prudhoe Bay, BP, SPINE ROAD,	Transmission Oil	5	Took Report, Case Closed 04-08-04		Vehicle Leak, All
4/12/04	04399910301	BPXA	ym	Checkpoint-Central,	Hydraulic Oil	5	Took Report, Case Closed 04-14-04		Seal Failure
4/12/04	04399910302	BPXA	y	Well Pad S,	Diesel	5	Phone Follow-up, Case Closed 04-14-04		Equipment Failure
4/26/04	04399911702	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Crude	5	Phone Follow-up, Case Closed 05-05-04		Corrosion
5/21/04	04399914202	BPXA	y	Drill Site 12,	Diesel	5	Phone Follow-up, Final Report 06-04-04		Seal Failure
5/28/04	04399914901	BPXA	y	U-21 (EOA Building),	Hydraulic Oil	5	Phone Follow-up, Case Closed 06-28-04		Line Failure
6/7/04	04399915901	BPXA	y	Drill Site 11,	Crude	5	Phone Follow-up, Case Closed 01-13-05		Other
6/19/04	04399917101	BPXA	y	Well Pad C, Well Pad C, Well C-17 Crude Leak	Crude	5	Phone Follow-up, Final closure pending 07-23-07		Line Failure
7/18/04	04399920002	ASCI	y	c Pad,	Other	5	Took Report, Case Closed 07-24-04		Corrosion
7/23/04	04399920502	BPXA	y	Well Pad D,	Crude	5	Took Report, Case Closed 07-26-04		Valve Failure
7/25/04	04399920701	BPXA	y	Well Pad N,	Hydraulic Oil	5	Took Report, Case Closed 07-26-04		Valve Failure
8/22/04	04399923501	BPXA	y	Drill Site 11,	Corrosion Inhibitor	5	Took Report, Case Closed 09-02-04		Leak
9/26/04	04399927002	BPXA	y	West Prudhoe Bay, H PAD,	Diesel	5	Took Report, Case Closed 10-28-04		Human Error
10/8/04	04399928201	BPXA	y	Drill Site 1 (DS-1),	Corrosion Inhibitor	5	Took Report, Case Closed 10-28-04		Equipment Failure
10/16/04	04399929001	BPXA	y	East Prudhoe Bay SURFCOAT,	Diesel	5	Took Report, Case Closed 10-26-04		Equipment Failure
11/5/04	04399931001	BPXA	y	Well Pad V, V-Pad MeOH/diesel	Crude	5	Phone Follow-up, Technical Assistance 01-19-05		Unknown
11/5/04	04399931001	BPXA	y	Well Pad V, V-Pad MeOH/diesel	Diesel	5	Phone Follow-up, Technical Assistance 01-19-05		Unknown
11/7/04	04399931203	BPXA	y	VMS Building,	Hydraulic Oil	5	Took Report, Case Closed 11-08-04		Line Failure
1/12/05	05399901201	BPXA	y	Drill Site 15,	Engine Lube Oil	5	Phone Follow-up, Case Closed 01-18-05		External Factors

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/15/05	05399901503	BPXA	y	Main Construction Camp (MCC),	Hydraulic Oil	5	Took Report, Case Closed 01-18-05		Seal Failure
2/17/05	05399904803	BPXA	y	Flow Station 1 (FS-1),	Engine Lube Oil	5	Phone Follow-up, Case Closed 01-04-06		Equipment Failure
3/15/05	05399907402	BPXA	y	Drill Site 18,	Crude	5	Took Report, Case Closed 03-21-05		Human Error
3/28/05	05399908701	BPXA	y	BP, COLD STORAGE PAD,	Diesel	5	Took Report, Case Closed 03-30-05		Equipment Failure
4/5/05	05399909501	BPXA	y	W PAD,	Crude	5	Phone Follow-up, Case Closed 04-07-05		Human Error
4/8/05	05399909801	BPXA	y	Gathering Center 3 (GC-3),	Hydraulic Oil	5	Took Report, Case Closed 04-10-05		Line Failure
5/3/05	05399912302	ASRC Energy Ser (formerly APC)	y	East Prudhoe Bay, DRILL SITE 17,	Corrosion Inhibitor	5	Took Report, Case Closed 05-04-05		External Factors
5/4/05	05399912401	BPXA	y	Drill Site 2,	Crude	5	Took Report, Case Closed 05-17-05		Unknown
5/20/05	05399914002	BPXA	y	Gathering Center 2 (GC-2),	Crude	5	Took Report, Case Closed 05-23-05		Other
5/27/05	05399914702	BPXA	y	DS L2,	Crude	5	Took Report, Case Closed 06-06-05		Other
6/12/05	05399916301	BPXA	y	E PAD,	Diesel	5	Took Report, Case Closed 06-14-05		Valve Failure
6/22/05	05399917301	BPXA	y	DS L 5,	Crude	5	Took Report, Case Closed 06-24-05		Equipment Failure
8/5/05	05399921701	ASRC Energy Ser (formerly APC)	y	Drill Site 11,	Diesel	5	Took Report, Case Closed 08-08-05		Human Error
8/12/05	05399922401	ALASKA INTERSTATE CO.	y	Well Pad B,	Diesel	5	Took Report, Case Closed 08-16-05		Line Failure
9/20/05	05399926303	BPXA	y	Drill Site 11,	Crude	5	Took Report, Case Closed 09-21-05		Seal Failure
11/6/05	05399931002	BPXA	y	Prudhoe Bay Operations Center (PBOC),	Engine Lube Oil	5	Took Report, Case Closed 11-14-05		Line Failure
12/3/05	05399933702	BPXA	y	Gathering Center 1 (GC-1),	Hydraulic Oil	5	Took Report, Case Closed 12-15-05		Equipment Failure
12/17/05	05399935101	ASCI	y	c Pad,	Hydraulic Oil	5	Took Report, Case Closed 12-20-05		Seal Failure
1/12/06	06399901201	BPXA	y	Grind & Injection (G&I) Facility, G&I Gravel Spill	Other	5	Phone Follow-up, Includes emails phone calls other letters NOS 01-13-06		Equipment Failure
3/1/06	06399906003	BPXA	y	LPC Drill Site L1,	Hydrochloric Acid	5	Took Report, Case Closed 03-05-06		Seal Failure
3/12/06	06399907103	ASRC Energy Ser (formerly APC)	y	DS 16,	Diesel	5	Phone Follow-up, Case Closed 03-16-06		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/14/06	06399907301	BPXA	y	DS 16,	Diesel	5	Took Report, Case Closed 03-31-06		Human Error
3/17/06	06399907601	BPXA	y	POINT MCINTYRE, PM 2,	Other	5	Phone Follow-up, Case Closed 10-10-06		Overfill
3/23/06	06399908203	BPXA	y	Gathering Center 2 (GC-2),	Hydraulic Oil	5	Took Report, Case Closed 03-24-06		Line Failure
3/25/06	06399908401	BPXA	y	Drill Site 6,	Diesel	5	Took Report, Final Report 05-30-06		Equipment Failure
4/24/06	06399911403	BPXA	y	Drill Site 18, DS 18 Mod 4932 Methanol Spill	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 05-11-06		Equipment Failure
5/5/06	06399912502	BPXA	y	Lisburne Production Center (LPC), Lisburne Prod Ctr Meg/Oil Spill	Engine Lube Oil	5	Phone Follow-up, Case Closed 05-23-06		Containment Overflow
5/7/06	06399912701	BPXA	ym	Field Ops Center (FOC), WOA Field Ops Center (FOC)	Diesel	5	Took Report, Case Closed 05-11-06		Vehicle Leak, All
6/13/06	06399916403	BPXA	y	Well Pad J,	Crude	5	Phone Follow-up, Case Closed 07-24-06		Valve Failure
6/15/06	06399916601	ASRC Energy Ser (formerly APC)	y	VMS Building,	Hydraulic Oil	5	Phone Follow-up, Final Report 06-16-06		Line Failure
7/21/06	06399920201	BPXA	y	Drill Site 6, Drillsite 6-15 Crude Oil Leak, EOA	Crude	5	Field Visit/s, Other 06-27-07		Line Failure
7/22/06	06399920303	BPXA	y	Well Pad K,	Hydraulic Oil	5	Took Report, Case Closed 07-24-06		Line Failure
7/30/06	06399921102	BPXA	y	Well Pad H, WOA Pad H Well 11 Hydraulic spill	Hydraulic Oil	5	Field Visit/s, Final closure pending 07-24-07		Line Failure
8/6/06	06399921803	FEX L.P.	ym	N 70 37.260, W 155 01.862, FEX L.P.	Diesel	5	Took Report, Case Closed 02-28-07		Unknown
8/15/06	06399922705	ASCI	y	BP, COLD STORAGE PAD,	Sulfuric Acid	5	Took Report, Case Closed 08-16-06		Human Error
8/26/06	06399923804	BPXA	y	Well Pad M,	Hydraulic Oil	5	Took Report, Case Closed 08-31-06		Line Failure
9/2/06	06399924502	BPXA	y	Seawater Injection Plant (SIP),	Diesel	5	Took Report, Case Closed 09-07-06		Human Error
9/11/06	06399925401	BPXA	y	Pad 3,	Hydraulic Oil	5	Took Report, Case Closed 09-15-06		Line Failure
10/8/06	06399928102	ASRC Energy Services	y	Drill Site 4,	Diesel	5	Phone Follow-up, Case Closed 10-16-06		Leak
11/13/06	06399931701	BPXA	y	West Dock,	Diesel	5	Took Report, Complaint/Report Received 11-15-06		Line Failure
11/18/06	06399932204	BPXA	y	Drill Site 12, BP East Prudhoe Bay	Diesel	5	Phone Follow-up, Case Closed 11-28-06		Other
01/19/07	07399901903	BPXA	y	POINT MCINTYRE, PM 2,	Diesel	5	Phone Follow-up, Final Report 01-30-07		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
01/28/07	07399902803	ENI Petroleum	ym	Please pick selection..., Rock Flour	Propylene Glycol	5	Took Report, Case Closed 07-02-07		Equipment Failure
02/11/07	07399904205	HOUSTON CONTRACTING	y	Lisburne Production Center (LPC), BP East Prudhoe Bay	Hydraulic Oil	5	Took Report, Complaint/Report Received 02-13-07		Equipment Failure
02/14/07	07399904502	ASRC Energy Services	y	West Prudhoe Bay SPINE RD, BP West Prudhoe Bay	Hydraulic Oil	5	Took Report, Case Closed 02-20-07		Human Error
02/16/07	07399904702	BPXA	y	Flow Station 1 (FS-1), BP East Prudhoe Bay	Diesel	5	Took Report, Complaint/Report Received 02-21-07		Crack
03/10/07	07399906901	BPXA	y	Lisburne Production Center (LPC),	Engine Lube Oil	5	Took Report, Case Closed 07-02-07		Containment Overflow
03/18/07	07399907701	BPXA	y	Gathering Center 2 (GC-2),	Corrosion Inhibitor	5	Took Report, Final Report 03-20-07		Equipment Failure
04/13/07	07399910305	Pioneer Natural Resources	ym	West North Slope, Pioneer natural Resources	Diesel	5	Phone Follow-up, Complaint/Report Received 04-16-07		Equipment Failure
04/29/07	07399911901	BPXA	y	Drill Site 4, BP East Prudhoe Bay	Diesel	5	Phone Follow-up, Case Closed 05-08-07		Overfill
05/02/07	07399912201	BPXA	y	Gathering Center 2 (GC-2),	Diesel	5	Took Report, Case Closed 05-08-07		Human Error
05/05/07	07399912501	BPXA	ym	Access Road,	Hydraulic Oil	5	Took Report, Case Closed 05-07-07		Line Failure
05/29/07	07399914901	BPXA	y	Well Pad S,	Hydraulic Oil	5	Took Report, Complaint/Report Received 06-05-07		Equipment Failure
08/08/07	07399922002	BPXA	ym	SPINE ROAD, DEADHORSE,	Crude	5	Took Report, Complaint/Report Received 08-13-07		Cargo Not Secured
08/24/07	07399923601	BPXA	ym	East Prudhoe Bay, BP-East	Diesel	5	Took Report, Case Closed 08-30-07		Human Error
09/01/07	07399924401	BPXA	y	Drill Site 14,	Diesel	5	Took Report, Case Closed 09-12-07		Human Error
09/16/07	07399925901	BPXA	y	Well Pad G, BP-West	Hydraulic Oil	5	Took Report, Case Closed 09-21-07		Line Failure
10/27/07	07399930001	BPXA	Y	Drill Site 15, Drill Site 15	Methyl Alcohol (Methanol)	5	Took Report, Case Closed 10-29-07		Equipment Failure
11/10/07	07399931401	BPXA	Y	GPMA drillsites, GPMA drillsites	Corrosion Inhibitor	5	Took Report, Case Closed 11-14-07		Equipment Failure
9/27/85	85360127003	Sohio N/S	y	GC-1,WSE Skid 306,	Crude	4	Contaminated snow and gravel picked up w/loader		
2/23/86	86360105401	Sohio Alaska Petroleum Company	y	A-1 Pad,	Diesel	4	Scraped up contaminated snow and ice		
7/26/87	87360120702	ARCO Alaska, Inc.	y	Flare Road Behind CGF, Area beside flare access road	Sheen hydrocarbon	4	Vacuumed ponded water-soaked up with sorbents	Liquid Injected-sorbents Incinerate	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/7/87	87360925001	Standard Alaska Production Com	y	BOC, In front of BOC	Glycol	4	Vacuumed up spillage	Interim Containment	
12/23/87	87360135701	ARCO Alaska, Inc.	y	Well 11-9, Area around discharge line which burst	Crude	4	Contaminants scraped up	Interim Containment	
1/28/88	88360102805	ARCO Alaska, Inc.	y	Pipeline Construction Pad DS-2,	Hydraulic oil	4	Contaminants scraped up	Interim Containment	
2/17/88	88360104802	Standard Alaska Production Com	y	Well M-3,	Hydraulic oil	4	Contaminants scraped up	Approved Landfill	
7/15/88	88360119708	ARCO Alaska, Inc.	y	DS 15, Well 22, contained on pad	Hydraulic oil	4	Shovels used to pick up contaminated gravel etc.		
7/19/88	88360120101	CAMCO	m	Tract 21, Tract 21 contained on pad	Waste crankcase	4	Used absorbents and picked up puddles on edge	Incinerated	oil seperator malfunctioned causing leaking into discharge water
8/22/88	88360123502	ARCO Alaska, Inc.	y	Drillstie 11, Well 16, contained on pad	Diesel	4	Scrapped up gravel with loader	Approved Landfill	portable generator fuel tank got a leak in it
9/14/88	88360125807	SAPC Endicott	y	Well B-9, contained on pad	Diesel	4	Loader on gravel	Approved Landfill	
9/22/88	88360126601	Stndard Alaska Production Comp	y	C Pad access road, contained in snow & ice at toe of access road	Diesel	4	Sorbents	Incinerated	portable generator broke loose, falling off road, spilling fuel
9/24/88	88360126803	Standard Alaska Production Com	y	GC-1, Skid 30, contained on pad	Emulsion breaker	4	Contaminated snow & gravel scraped up with shovels	Approved Landfill	spilled while transferring from between truck and holding tank
10/8/88	88360128201	ARCO Alaska, Inc.	y	Lisburne Production Center, contained on pad	Crude	4	Picked up with absorbent pads	Incinerated	
10/23/88	88360129705	SAPC Endicott	y	Well H-8, contained in snow on pad	Crude	4	Snow scraped up with shovels, bagged	Incinerated	oil sprayed during gas venting at well
10/26/88	88360130004	ARCO Alaska, Inc.	y	DS 12, Well 13, contained on pad	Diesel	4	Absorbents for material, hand shovels for snow	Incinerated	pump valve cracked while removing ice blockage
10/27/88	88360130102	ARCO Alaska, Inc.	y	DS 12, Well 11, contained on pad	Crude	4	Grader removed contaminated snow & material	Approved Landfill	material sprayed out of tank due to turbulent gas flow
11/13/88	88360131802	ARCO Alaska, Inc.	y	DS 3, Well 20, contained on pad	Hydraulic oil	4	Absorbents for material; loader for snow	Incinerated	hose ruptured on power steering unit of tractor trailer
2/22/89	89360105303	ARCO Alaska, Inc.	y	DS 14, Well 33, contained on pad	Crude	4	Absorbents for fluid, loader for snow	Incineration/approved Landfill	ice block in hose on vac truck caused drip pan overflow
4/11/89	89360110101	ARCO Alaska, Inc.	y	Roadway between DS 9 and Sag River Ice Road, Contained on snow on pad	Antifreeze	4	Loader removed snow, melted and recycled at fs 1	Recycled	MIxture hydraulic oil and glycol.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/15/89	89360110501	ARCO Alaska, Inc.	y	Access road Pad 3, contained on pad atop hardpack snow	Antifreeze	4	Snow and gravel removed with hand shovels, material melted, soaked up with absorbents. sorbents to nsb incinerator	Incinerated	Mixture 50-50 glycol and water spilled when truck engine broke down and leaked onto road surface.
5/2/89	89360112202	ARCO Alaska, Inc.	y	Pt. McIntyre, Well 4, contained on snow on pad	Hydraulic oil	4	Absorbents used, disposed of at nsb incinerator	Incinerated	Transmission powere take off unit failed and case cracked.
6/7/89	89360115802	ARCO Alaska, Inc.	y	DS 3 common line 3c, contained on pad	Crude	4	Absorbents to soak up material, shovel to remove gravel. taken to nsb incinerator.	Incinerated	Leaking Flange.
6/14/89	89360116501	ARCO Alaska, Inc.	y	DS 9, Well 9, contained on snow on pad	Crude	4	Sorbents used, gravel picked up. sorbents to nsb incinerator, gravel to pad 3 when temp storage built.	Multiple	Truck tanker rear hatch not sealed.
6/15/89	89360116602	ARCO Alaska, Inc.	y	DS 13, Well 1, contained on pad	Other	4	Contaminated gravel will be removed to pad 3 when temp storage built.	Interim Containment	Arctic Pack mixture.
6/29/89	89360118006	BPXA	m	Skid 241, Well 2-68, Contained on gravel, approx. 48 sq ft.	Crude	4	Picked up approx. 2 yds gravel. taken to nsb sowp.	Approved Landfill	Leaking valve on well flow line. Leaked about 2 qts crude, 3 gal. diesel.
7/10/89	89360119101	ARCO Alaska, Inc.	y	DS 11, Well 16, contained on pad	Crude	4	Absorbents used, taken to nsb incin., gravel to sowp	Multiple	Relief valve opened while performing a pump-in temp survey.
7/22/89	89360120301	ARCO Alaska, Inc.	y	DS 15, Well 22, 4'x 10' area on gravel pad	Diesel	4	Contaminated gravel picked up by loader, taken to nsb sowp.	Approved Landfill	Material leaked from fuel line of air compressor.
8/11/89	89360122303	BPXA	y	Well A 20, contained on gravel pad.	Crude	4	Oil soaked up with absorbents, acid neutralized with soda ash,gravel removed. sorbents to nsb incin., gravel to santa fe pad.	Multiple	Crude, 2 gal, 0.01 pct 2 gal. Bleed valve failed, allowing sump to overflow.
8/13/89	89360122502	BPXA	m	BOX Fuel Pumps, gravel	Gasoline	4	Gravel scraped up, taken to lined berms on santa fe pad.	Approved Landfill	Fuel nozzle did not shut off when tank was full.
10/5/89	89360127803	BPXA	y	BOC Fuel pumps, Contained on gravel pad.	Gasoline	4	Absorbents used, taken to nsb for incineration.	Incinerated	Fuel pump nozzle failed to shut off.
10/24/89	89360129703	ARCO Alaska, Inc.	y	FS 3 south of module 4935, Contained on pad	Diesel	4	Absorbents used. sorbents to nsb incinerator, gravel to nsb sowp.	Multiple	50% diesel, 50% hydraulic released from hoses on manlift when it caught on fire.
11/19/89	89360132302	ARCO Alaska, Inc.	y	DS 11 Well 26, Contained on pad	Diesel	4	Material bagged, put into containment drums.	Interim Containment	Loss of grease seal on main airline caused leak of 50% diesel, 50% seawater. 3rd party spill--CAMCO.
11/27/89	89360133103	ARCO Alaska, Inc.	y	DS 2 Well 25, Contained on pad	Diesel	4	Absorbents used, taken to burnable dumpster.	Incinerated	Tank switch froze causing fuel pump to recycle back into tank, overflowing.
11/29/89	89360933301	BPXA	m	WSW methanol tank hook-up, Contained in snow on pad.	Methanol	4	Snow removed by loader and shovels, taken to snow melter for recovery.	Recycled	Methanol leaked onto pad when Alaska West truck driver disconnected hoses after off loading truck.
12/22/89	89360135602	ARCO Alaska, Inc.	y	PBOC warm storage, Contained on pad.	Hydraulic oil	4	Absorbents used, small amount snow removed, all bagged and taken to nsb incinerator.	Incinerated	
12/22/89	89360135603	BPXA	y	BOC Fuel Pumps, Contained on pad	Gasoline	4	Abosrbents used, taken to nsb incinerator. small amount of ice removed.	Incinerated	Nozzle did not shut off during vehicle fillup.
12/28/89	89360936201	ARCO Alaska, Inc.	y	J Pad, Contained on pad	Methanol	4	Snow/gravel taken to nsb incinerator.	Incinerated	Sight glass not working, tank overfilled.
3/2/90	90360106102	ARCO Alaska, Inc.	y	DS L4 Well 10, Contained on snow covered pad	Diesel	4	Hand shovels used, taken to melter, injected at pad 3.	Subsurface Injection	Check valve failed during wireline operation.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/12/90	90360113202	ARCO Alaska, Inc.	y	DS 9 Well 3, Contained on pad	Diesel	4	Loader, truck used. material taken to pad 3 temp sowp.	Approved Landfill	Generator leaked.
5/27/90	90360114702	ARCO Alaska, Inc.	y	SIP, Gravel pad	Crude	4	Absorbents used, gravel removed, taken to pad 3.	Approved Landfill	Spray carried over with gas.
5/27/90	90360114705	BPXA	y	Pad A7, Contained on pad	Diesel	4	Absorbents used, gravel scraped up. sorbents to nsb incin., gravel to a3w2 to be rinsed.	Multiple	Arctic Coiled Tubing contractor.
6/2/90	90360115301	ARCO Alaska, Inc.	y	DS 4, Contained on pad	Diesel	4	Removed gravel, taken to pad 3.	Approved Landfill	Auto nozzle did not shut off.
7/26/90	90360120701	Four Star Terminals	y	COTU Fuel pumps, Gravel on pad	Diesel	4	Bagged and sent to pad 3 disposal pit.	Approved Landfill	Nozzle "jumped" out of tank.
8/14/90	90360122603	ARCO Alaska, Inc.	y	FS 3 Module 4930, Contained on pad	Hydraulic oil	4	Gravel removed to nsb sowp.	Approved Landfill	
10/1/90	90360927402	Price/Northland Joint Venture	m	Pipeline MP 161, Soil/gravel	Antifreeze	4	Excavated soil/gravel, incinerated at atigun.	Incinerated	H.C. Price/Northland joint venture for this project only. Filed under H.C. Price.
10/22/90	90360929504	ARCO Alaska, Inc.	y	DS 9 Well 14, Contained on snow	Antifreeze	4	Absorbents used, hand shovels. absorbents incinerated nsb.	Incinerated	Suspect equipment leak.
12/7/90	90360134101	ARCO Alaska, Inc.	y	J Pad, Gravel pad	Diesel	4	Hand shovels removed snow, reused.	Recycled	Line froze, camlock broke spilling 85% fresh water, 15% diesel.
12/12/90	90360934701	ARCO Alaska, Inc.	y	FS 2 Access Rd., Gravel on road	Methanol	4	Loader removed gravel, gravel washed, recycled in freeze protection.	Recycled	
1/18/91	91360901801	ARCO Alaska, Inc.	y	C Pad, Contained on pad	Methanol	4	Shovels removed snow, some gravel. stored in haz. materials site. will be shipped to permitted disposal.	Approved Landfill	Suspect leak from parked tanker.
2/12/91	91360104305	Alaska Petroleum Contractors	y	DS 12, Well 8 ARCO, Gravel pad	Diesel	4	Snow/gravel removed, put in bags. put in open top tank to be melted, hauled to pad 3. gravel supersucked, taken to pad 3.	Approved Landfill	
2/18/91	91360904903	BPXA	y	Big Lake reservoir, Contained on road	Antifreeze	4	Material removed with loader, taken to a3w2 melt tank.	Interim Containment	Hose clamp broke on radiator on truck.
2/20/91	91360105104	Otis Engineering	y	Between DS 3 and DS 16, Snow	Hydraulic oil	4	Snow shoveled into bags, run through separator. no final disposition given.	Not Given	Trailer unhooked, left road and stopped at angle that allowed fluid to drain out. 2 gal each hydraulic and antifreeze.
3/15/91	91360907404	BPXA	y	F Pad Skid 95, Contained on pad	Methanol	4	Shovels used. contaminates hauled to melter at a3w2.	Interim Containment	Ineffective monitoring of fluid level.
3/17/91	91360907602	BPXA	y	K Pad K-1, Contained on pad	Antifreeze	4	Loader, shovel used, taken to t pad lined pit for summer recovery.	Interim Containment	Located during routine inspections.
3/21/91	91360908003	B.J. Services	m	North Slope (no specific location given), Not given	Antifreeze	4	Absorbents, shovels removed product, returned to bj facility then incinerated nsb.	Incinerated	
3/23/91	91360108205	BPXA	m	Survey location, Unknown, no water	Transmission oil	4	Snow removed, incinerated nsb.	Incinerated	Equipment leak during survey job. Improper disposal oiled snow. Seeded and fertilized.
4/4/91	91360109401	BPXA	y	CC 1 Annex, No enviro damage detected	Engine lube oil	4	Loader, shovels, absorbents used. taken to a3w2 melt tank for recovery.	Recycled	Drain plug fell out of bus.
4/6/91	91360109601	BPXA	m	Various Survey sites, Unknown	Diesel	4	As much snow was removed as practical. taken to nsb incinerator.	Incinerated	Equipment leaks.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/6/91	91360209601	Peak Oilfield Services	y	DS 15, Snow/ice	Seawater	4	Shovel used to scrape up snow/ice. material put in buckets, then to nsb incinerator.	Incinerated	On recorder.
4/26/91	91360111605	BPXA	m	Various survey sites, Unknown	Transmission oil	4	As much snow removed as practical. taken to nsb incinerator.	Incinerated	
5/30/91	91360115004	BPXA	y	Q Pad Well 2, Contained on gravel	Crude	4	Gravel removed with shovels, taken to t pad pit.	Approved Landfill	Discovered during routine inspection.
6/2/91	91360115301	ARCO Alaska, Inc.	y	DS 9 Well 13, Not given	Crude	4	Gravel removed, taken to pad 3.	Approved Landfill	
6/6/91	91360115702	BPXA	y	GCI Skid 15 & 16, Contained on pad	Crude	4	Contaminants scraped, shoveled into bags. taken to t pad lined pit for summer recovery.	Interim Containment	Improper loading procedures during winter operations.
6/14/91	91360116505	BPXA	y	M Pad Well 27, Contained on pad	Crude	4	Loader removed gravel, took to arco pad 3.	Approved Landfill	Hose fitting sheared during well work.
6/26/91	91360117701	ARCO Alaska, Inc.	y	FS 1, Gravel pad	Engine lube oil	4	Absorbents, shovels used. gravel taken to pad 3 swp, pads to nsb incin.	Incineration/approved Landfill	Leaking packing on pump overflowed sump.
6/29/91	91360118002	ARCO Alaska, Inc.	y	CCP, Contained on pad	Diesel	4	Hand shovels removed gravel. taken to c pad.	Approved Landfill	Pressure from thermal expansion.
8/29/91	91730124101	BPXA	y	M Pad near M-4, Contained on pad	Diesel	4	Gravel shoveled into bags, washed and taken to arco pad 3.	Approved Landfill	
8/30/91	91730924201	BPXA	y	S Pad Skid 93, Contained on pad	Corrosion inhibitor	4	Absorbents used, loader removed gravel. material to arco pad 3.	Approved Landfill	Loose flange on flow line.
9/1/91	91730124402	BPXA	y	R Pad Well 18, Cotained on pad	Hydraulic oil	4	Gravel removed with shovels, taken to a3w2 for washing.	Interim Containment	
9/2/91	91730124501	Canadian Fracmaster	y	DS 18 Well 9, Not given	Hydraulic oil	4	"cleaned up and disposed of." no method given, no disposal given.	Not Given	On recorder.
9/7/91	91730125002	BPXA	y	GC3 Skid 415, Contained on pad	Crude	4	Loader, shovels removed gravel. taken to arco pad 3.	Approved Landfill	
12/13/91	91730134701	Alaska Petroleum Contractors	y	DS Maintenance yard, 4 x 4	Diesel	4	Shoveled into drums, taken to snow melter at fs 1.	Interim Containment	Frozen crossover line on fuel tank prevented equalization.
2/10/92	92730104104	ARCO Alaska Inc.	y	DS Maintenance yard, Contained on snow on pad	Diesel	4	Shovels removed snow, melted, recycled fs 1.	Recycled	Thermal expansion.
2/17/92	92730104801	ARCO Alaska Inc.	y	MCC fuel island, 160 sq ft snow on pad	Diesel	4	10 cy snow removed, sorbents used. sorbents to nsb incin., fluid re used as cutwater.	Multiple	
2/23/92	92730105401	BPXA	m	Remote location, Unknown	Transmission oil	4	Removed snow, hauled to nsb incinerator.	Incinerated	
3/22/92	92730108201	VERA Environmental	y	DS 3 reserve pit, Not given	Hydraulic oil	4	Not given.	Not Given	
6/17/95	95360116801	ARCO	y	D-15, GRAVEL	Crude	4	Guzzler removed contam. gravel. boom used, sorbents picked up floating crude. gravel/fluid to arco pad 3, sorbents/boom to ns oily waste dumpster.	Approved Landfill	CORROSION IN ELBOW ALLOWED THE CRUDE TO MIGRATE THRU INSULATION INTO RESERVE PIT.
7/24/95	95399920504	BPXA	y	West Prudhoe Bay, H PAD WELL 6,	Engine Lube Oil	4	Took Report, Case Closed 01-00-00		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/14/96	96399901401	ARCO	y	East Prudhoe Bay, DS 18,	Hydraulic Oil	4	Took Report, Case Closed 01-00-00		Line Failure
4/30/96	96399912101	VECO	ym	WESTERN OP. AREA GUARD SHACK,	Ethylene Glycol (Antifreeze)	4	Took Report, Case Closed 01-00-00		Collision/Allision
7/2/96	96399918402	ARCO	y	SIP,	Diesel	4	Took Report, Case Closed 01-00-00		Leak
7/2/96	96399918403	ARCO	y	CGF,	Diesel	4	Took Report, Case Closed 01-00-00		Leak
12/4/96	96399933901	BPXA	y	Well Pad C,	Engine Lube Oil	4	Took Report, Case Closed 01-00-00		Seal Failure
5/23/97	97399914301	BPXA	y	West North Slope, BP Well Pad D.,	Hydraulic Oil	4	Took Report, Case Closed 05-26-97		Leak
6/8/97	97399915901	BPXA	y	West North Slope, BP Well Pad M.,	Kerosene	4	Took Report, Case Closed 01-00-00		Valve Failure
8/18/97	97399923001	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, DOWELL SCHLUMBERGER DS-11.,	Engine Lube Oil	4	Took Report, Case Closed 01-00-00		Line Failure
1/30/99	99399903101	HB&R	y	B.P., GC-3,	Diesel	4	Took Report, Case Closed 02-01-99		Line Failure
6/9/99	99399916001	BPXA	y	West Prudhoe Bay,Well Pad H, WELLHOUSE H-21,	Hydraulic Oil	4	Took Report, Case Closed 06-11-99		Equipment Failure
9/2/99	99399924501	BPXA	y	BP, COLD STORAGE PAD,	Diesel	4	Took Report, Case Closed 09-10-99		Leak
10/25/99	99399929801	BPXA	y	East Prudhoe Bay, Well Pad C-19,	Crude	4	Took Report, Case Closed 10-26-99		Seal Failure
1/5/00	00399900501	ARCO ALASKA	ym	West Prudhoe Bay, DRILLSITE L1 PAD,	Hydraulic Oil	4	Took Report, Case Closed 01-09-00		Line Failure
1/10/00	00399901001	ARCO ALASKA	ym	EAST NORTH SLOPE, FLOW STATION 2 FLARE PIT,	Ethylene Glycol (Antifreeze)	4	Took Report, Case Closed 07-21-00		Unknown
3/11/00	00399907102	HOUSTON CONT/BP EXPLORATION	ym	West Prudhoe Bay, NORTHSTAR PIPELINE RIGHT OF WAY,	Ethylene Glycol (Antifreeze)	4	Took Report, Case Closed 04-05-00		Line Failure
3/13/00	00399907304	BPXA	y	West Prudhoe Bay, Well Pad B,	Hydraulic Oil	4	Took Report, Case Closed 03-16-00		Leak
4/15/00	00399910601	BPXA	ym	West Prudhoe Bay, GC-3 PAD, SKID 454,	Ethylene Glycol (Antifreeze)	4	Took Report, Case Closed 04-16-00		Other
6/22/00	00399917402	ALASKA PETRO CONT/PHILLIPS AK	ym	West North Slope, WEST TENT WHERE FIRE ENGINE KEPT,	Hydraulic Oil	4	Took Report, Case Closed 06-23-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/27/00	00399920901	CROWLEY ALL TERRAIN CORP/CATCO	ym	East Prudhoe Bay, SAND BAR IN SAG RIVER NEAR HAUL,	Hydraulic Oil	4	Took Report, Complaint/Report Received 07-28-00		Line Failure
10/5/00	00399927901	PHILLIPS ALASKA, INC.	ym	East Prudhoe Bay SAG RIVER BRIDGE,	Diesel	4	Took Report, Complaint/Report Received 10-07-00		Human Error
12/23/00	00399935801	LYNDEN TRANSPORT, INC.	y	West Prudhoe Bay, WESTERN OPERATING AREA, C-PAD,	Transmission Oil	4	Took Report, Case Closed 01-10-01		Rollover/Capsize
1/25/01	01399902501	SCHLUMBERGER/ BPX	y	EAST NORTH SLOPE DRILL SITE 04,	Crude	4	Took Report, Case Closed 02-09-01		Seal Failure
1/29/01	01399902901	BPXA	y	West Prudhoe Bay, ICE ROAD BETWEEN W-PAD & U-PAD,,	Diesel	4	Took Report, Case Closed 01-29-01		Line Failure
3/2/01	01399906101	SCHLUMBERGER/ BPX	y	EAST NORTH SLOPE DRILL SITE 09,	Methyl Alcohol (Methanol)	4	Took Report, Case Closed 03-02-01		Seal Failure
3/21/01	01399908003	BPXA	ym	EAST NORTH SLOPE STORAGE PAD,	Diesel	4	Took Report, Case Closed 04-25-01		Puncture
4/21/01	01399911103	BPXA	ym	EAST NORTH SLOPE SAG RIVER BRIDGE,	Propylene Glycol	4	Took Report, Case Closed 04-21-01		Leak
7/9/01	01399919001	DOWELL SCHLUMBERGER	ym	West North Slope SCHLUMBERGER,	Engine Lube Oil	4	Took Report, Complaint/Report Received 07-09-01		Leak
8/5/01	01399921701	NANA MANAGEMENT/ BPX	y	East Prudhoe Bay PBOC,	Diesel	4	Took Report, Complaint/Report Received 08-05-01		Leak
8/13/01	01399922501	NORDIC/ BPX	y	West Prudhoe Bay Well Pad M,	Other	4	Took Report, Case Closed 08-14-01		Cargo Not Secured
3/2/02	02399906102	BPXA	y	Drill Site 15,	Methyl Alcohol (Methanol)	4	Phone Follow-up, Final Report 03-05-02		Equipment Failure
3/24/02	02399908303	HOUSTON CONTRACTING /BP EXPLORATION	y	MCC/PBOC,	Diesel	4	Took Report, Case Closed 04-01-02		Equipment Failure
5/7/02	02399912702	BPXA	y	Oxbow Road,	Ethylene Glycol (Antifreeze)	4	Took Report, Case Closed 05-08-02		Equipment Failure
7/23/02	02399920402	BPXA	y	Well Pad R-36,	Crude	4	Took Report, Complaint/Report Received 07-23-02		Gauge/Site Glass Failure
7/30/02	02399921103	BPXA	y	Seawater Injection Plant (SIP),	Other	4	Took Report, Complaint/Report Received 07-31-02		Line Failure
9/26/02	02399926902	BPXA	y	West Prudhoe Bay, BP, Z-PAD,	Crude	4	Phone Follow-up, Other 09-27-02		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/22/03	03399902201	BPXA	y	Well Pad V,	Diesel	4	Took Report, Case Closed 01-27-03		Human Error
3/2/03	03399906102	BPXA	y	Well Pad F,	Seawater	4	Took Report, Case Closed 03-03-03		Overfill
3/4/03	03399906303	BPXA	y	Well Pad L,	Diesel	4	Took Report, Case Closed 03-05-03		Equipment Failure
3/14/03	03399907301	DOWELL SCHLUMBERGER	y	Well Pad C,	Hydraulic Oil	4	Took Report, Final Report 03-17-03		Seal Failure
4/14/03	03399910406	BPXA	y	DS 16,	Diesel	4	Took Report, Case Closed 04-18-03		Equipment Failure
5/6/03	03399912601	BPXA	y	East Prudhoe Bay, DS 11,	Hydraulic Oil	4	Took Report, Case Closed 05-07-03		Line Failure
1/14/04	04399901402	BPXA	y	Seawater Injection Plant (SIP),	Diesel	4	Phone Follow-up, Case Closed 02-10-04		Line Failure
2/7/04	04399903802	ASRC Energy Ser (formerly APC)	y	Well Pad M,	Crude	4	Took Report, Case Closed 02-09-04		Human Error
2/24/04	04399905503	BPXA	ym	SPINE ROAD, DEADHORSE,	Transmission Oil	4	Took Report, Case Closed 02-27-04		Seal Failure
2/25/04	04399905604	ASRC Energy Ser (formerly APC)	y	c Pad,	Corrosion Inhibitor	4	Took Report, Case Closed 02-27-04		Gauge/Site Glass Failure
3/11/04	04399907101	BPXA	y	Oxbow Road,	Hydraulic Oil	4	Took Report, Case Closed 03-15-04		Line Failure
4/7/04	04399909801	BPXA	y	BP, Well Pad E,	Diesel	4	Phone Follow-up, Case Closed 04-09-04		Seal Failure
6/13/04	04399916502	BPXA	y	Well Pad Z,	Hydraulic Oil	4	Took Report, Case Closed 06-17-04		Unknown
8/28/04	04399924101	BPXA	y	Main Construction Camp (MCC),	Propylene Glycol	4	Took Report, Case Closed 09-16-04		Line Failure
9/3/04	04399924701	BPXA	y	E PAD,	Crude	4	Took Report, Case Closed 10-01-04		Unknown
9/12/04	04399925601	BPXA	ym	Access Road,	Engine Lube Oil	4	Took Report, Case Closed 09-15-04		Equipment Failure
9/16/04	04399926001	BPXA	y	Well Pad L,	Corrosion Inhibitor	4	Took Report, Case Closed 09-24-04		Seal Failure
11/22/04	04399932701	BPXA	y	Drill Site 4,	Hydraulic Oil	4	Took Report, Case Closed 11-24-04		Line Failure
1/15/05	05399901502	ASRC Energy Ser (formerly APC)	y	Drill Site 12,	Corrosion Inhibitor	4	Field Visit/s, Case Closed 06-29-05		Puncture
2/6/05	05399903701	BPXA	y	Well Pad V,	Hydraulic Oil	4	Took Report, Case Closed 02-08-05		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/15/05	05399907401	ALASKA WEST EXPRESS, INC.	y	Well Pad C,	Methyl Alcohol (Methanol)	4	Took Report, Case Closed 03-17-05		Human Error
4/1/05	05399909101	Alaska West Express, Inc.	y	c Pad,	Methyl Alcohol (Methanol)	4	Took Report, Case Closed 04-04-05		Seal Failure
4/8/05	05399909803	BPXA	y	Lisburne Production Center (LPC),	Diesel	4	Took Report, Case Closed 04-10-05		Line Failure
4/20/05	05399911001	BPXA	y	DRILL SITE L3,	Hydraulic Oil	4	Took Report, Final Report 04-27-05		Line Failure
5/1/05	05399912102	BPXA	y	East Prudhoe Bay PBOC,	Diesel	4	Took Report, Case Closed 05-02-05		External Factors
6/15/05	05399916601	ALASKA CLEAN SEAS	y	East Prudhoe Bay, SRT PAD,	Hydraulic Oil	4	Took Report, Case Closed 06-24-05		Human Error
11/22/05	05399932601	BPXA	y	Drill Site 9 (DS-9),	Hydraulic Oil	4	Took Report, Case Closed 11-23-05		Unknown
1/10/06	06399901001	BPXA	y	Well Pad F,	Propylene Glycol	4	Field Visit/s, Case Closed Transferred To CSITES 11-07-06		Collision/Allision
4/21/06	06399911103	BPXA	y	Seawater Treatment Plant (STP),	Other	4	Phone Follow-up, Case Closed 08-31-06		Line Failure
01/28/07	07399902802	ENI Petroleum	ym	Rock Flour, Rock Flour	Propylene Glycol	4	Took Report, Case Closed 07-02-07		Equipment Failure
03/13/07	07399907202	BPXA	y	West Prudhoe Bay, Well Pad U,	Diesel	4	Took Report, Case Closed 04-25-07		Line Failure
08/21/07	07399923301	ASRC Energy Services	ym	West Prudhoe Bay ACCESS ROAD,	Transmission Oil	4	Took Report, Case Closed 08-24-07		Equipment Failure
10/20/07	07399929301	BPXA	Y	East Prudhoe Bay, LPC, East Prudhoe Bay, LPC	Hydraulic Oil	4	Took Report, Complaint/Report Received 10-22-07		Line Failure
10/22/07	07399929501	BPXA	Y	Airport, Airport	Crude	4	Took Report, Case Closed 10-29-07		Puncture
4/23/81	81360111302	Sohio	y	C Pad "Tiger Tank", Not given.	Oil phase mud	3	Not given.	Not Given	Entered 10-25-89 from old records. Follow up dates 5/4/81 and 7/27/81
6/7/81	81360115802	Sohio	y	Skid 28 GC-3, Prudhoe, Not given.	Other	3	Not given.	Not Given	Entered 10-26-89 from old records. Follow up dates 7-7 and 9-9-81. Product biocide emulsifier.
7/3/81	81360118401	ARCO Alaska, Inc.	y	DS 3, east of East Pad, 50 x 100 yds tundra	Crude	3	Absorbents used, gravel removed. pads to nsb incinerator, gravel to ds mud pit.	Not Given	Entered 10-30-89 from old records. Follow up 12-14-81. Mixture crude and diesel spilled on pad and pushed onto tundra over winter.
7/15/81	81360119601	Sohio	y	BOC Pad, Prudhoe, Not given.	Hydraulic oil	3	Not given.	Not Given	Entered 10-30-89 from old records. Follow up 8-7 and 9-23-81.
9/10/81	81360125301	Nana Oilfield Services	y	East Dock, Prudhoe, Not given.	Diesel	3	Not given.	Not Given	Entered 11-20-89 from old records.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/9/82	82360116001	ARCO Alaska, Inc.	y	Drill Site #14, Prudhoe Bay, Gravel pad undr dumpster.	Crude	3	Shovels and absorbent pads.	Incineration/approved Landfill	Oily material was placed in dumpster and leaked onto pad.Entered from old records 4-28-90.
6/11/82	82360116201	ARCO Alaska, Inc.	y	Oily Waste Disposal Well Pad #3 Prudhoe Bay, Majority remained in dike area,mist onto tundra.	Oil phase mud	3	Suction truck, cleanup crew, steamer, and absorbent pads & shoveled top crust of snow. disposal well and pads to nsb incinerator.	Multiple	Bourdon tube failed on pressure gauge. Entered from old records 4-28-90.
9/13/82	82360125601	ARCO Alaska, Inc.	y	FS 1, Prudhoe Bay, Gravel pad.	Crude	3	Absorbent pads and gravel removed.	Multiple	The hose between tank truck and tank blew off. Pads taken to NSB incinerator and gravel spread on main spine road. Entered from old records 4-28-90.
7/14/83	83360119501	Kodiak Oilfield Haulers	m	Thetis island, Unknown	Diesel	3	Unknown	Not Given	Entered from old records 6/26/90.
4/16/87	87360110601	ARCO Alaska, Inc.	y	L2 Pad,	Crude/diesel/water mix	3	Soaked up w/sorbents-contaminants scraped up	Approved Landfill	
6/25/87	87360117601	ARCO Alaska, Inc.	y	DS 16,	Hydraulic oil	3	Soaked up with sorbents	Incinerated	
7/11/87	87360119201	ARCO Alaska, Inc.	y	DS 4, Well 22,	Crude	3	Contaminants scraped up and steam cleaned	Liquid Injected/gravel Respread	
7/20/87	87360120101	ARCO Alaska, Inc.	y	Lisburne Pad L3, Well 12, Approximately 15' X 100' on pad	Crude	3	Contaminants scraped into pad	Padspred	
9/27/87	87360127002	ARCO Alaska, Inc.	y	DS 16, Well 11,	Hydraulic oil	3	Soaked up with sorbents	Incinerated	
9/29/87	87360127201	Standard Alaska Production Com	y	C Pad, C-28 well,	Crude	3	Soaked up w/sorbents-contaminated gravel scraped u	Sorbents Incinerated/cont. To Nsb	Leaking valve.
10/3/87	87360127603	ARCO Alaska, Inc.	y	NGI,	Diesel	3	Unknown	Unknown	
2/14/88	88360104502	ARCO Alaska, Inc.	m	CWC Warehouse,	Hydraulic oil	3	Soaked up with sorbents/contaminants scraped up	Incinerated	
5/2/88	88360112302	ARCO Alaska, Inc.	y	DS 7, Well 72P,	Crude	3	Contaminants scraped up		
5/21/88	88360114201	ARCO Alaska, Inc.	y	DS 14,	Hydraulic oil	3	Soaked up with sorbents/contaminants scraped up	Sorbs Incine/contams To Pad 3 Owp	
6/6/88	88360115801	ARCO Alaska, Inc.	y	C Pad, C Pad	Hydraulic oil	3	Soaked up w/sorbents	Incinerated	
6/11/88	88360116301	ARCO Alaska, Inc.	y	DS 1, Guard Shack, DS 1, Guard Shack	Crude	3	Picked up from gravel	Multiple/see Comments	Cause: sorbents removed from truck-fuel vented out
6/12/88	88360116402	ARCO Alaska, Inc.	y	Crude Oil Topping Unit, COTU	Crude	3	Contained on pad/sorbents	Incinerated	Cause: 3 inch wax test freeze pipeline pipe flange leaked

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/21/88	88360117302	ARCO Alaska, Inc.	y	DS 9, Well 9, contained on pad area 3' x 9'	Hydraulic oil	3	Graded into surface	Padspred	Cause: Unknown
7/9/88	88360119104	SAPCO	y	X 14, contained on pad	Hydraulic oil	3	Shoveled contaminant into plastic bags	Approved Landfill	
7/22/88	88360120401	SAPCO	y	Permafrost Pad, contained on pad	Diesel	3	Removed residue out of tank, replaced fittings	Approved Landfill	leaking connection valve malfunction, Tank #3
7/22/88	88360120408	Standard Alaska Production Com	m	Old Yard, contained on pad	Diesel	3	Shoveled contaminated gravel into trash bags	Approved Landfill	Messy fueling conditions. Tanks were emptied.
7/23/88	88360120503	ARCO Alaska, Inc.	y	DS 18, Well 16, contained on pad	Diesel	3	Used absorbands, contaminated gravel removed	Incineration/approved Landfill	
8/25/88	88360123801	Standard Alaska Production Com	y	S-Pad Pigging Pit, contained on pad	Crude	3	Contaminated removed	Approved Landfill	Wind blew contaminate from pit.
9/16/88	88360126001	ARCO Alaska, Inc.	y	FS 2, slop oil tank, contained on pad	Crude	3	Hand shovels used to removed contaminated gravel	Approved Landfill	
9/17/88	88360126101	ARCO Alaska, Inc.	y	DS 11, Well 12, contained on pad	Diesel	3	Absorbents and hand shovels to removed gravel	Incineration/approved Landfill	
9/17/88	88360126103	ARCO Alaska, Inc.	y	DS 17, Well 6, contained on pad	Diesel	3	Absorbents, gravel raked into pad	Incinerated	
10/17/88	88360129103	ARCO Alaska, Inc.	y	DS 7, Well 34, contained on pad	Diesel	3	Snow removed with shovels	Snow To Pad 3 Oily Waste Pit	Packing leak during test.
10/23/88	88360129703	ARCO Alaska, Inc.	y	LPC, contained on pad	Hydraulic oil	3	Absorbents, shovels on snow	Incineration/approved Landfill	
10/23/88	88360129704	SAPC Endicott	m	U-305, ground	Diesel	3	Loader scooped up contaminated snow	Approved Landfill	hose ruptured due to frozen vac truck inlet pipe
10/26/88	88360130005	ARCO Alaska, Inc.	y	FS 2, contained on pad	Diesel	3	Absorbents on material, loader on snow	Incineration/approved Landfill	dolly handle punctured small hole in fuel tank
11/16/88	88360132101	ARCO Alaska, Inc.	y	DS 7, Well 27, contained on pad	Hydraulic oil	3	Absorbents for fluid	Incinerated	hose leak on wireline unit
11/18/88	88360132303	ARCO Alaska, Inc.	y	DS 11, Well 10, contained on pad	Diesel	3	Snow picked up with loader	Approved Landfill	blowdown trailer hose leaked when trailer was moved
12/18/88	88360135202	ARCO Alaska, Inc.	y	C-Pad, contained on pad	Methanol	3	Snow picked up with shovels	Multiple/see Disposal	overfilled tanker truck
12/26/88	88360136103	ARCO Alaska, Inc.	y	DS 4, Well 25, contained on pad	Diesel	3	Loader used on contaminated snow	Approved Landfill	tank in use on backflow operation had slow leak
12/31/88	88360136601	ARCO Alaska, Inc.	y	DS 4, Well 8, contained on pad	Diesel	3	Snow picked up by loader	Approved Landfill	slop oil trailer had slow dripping leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/7/89	89360100703	ARCO Alaska, Inc.	y	DS 9, Manifold Bldg., 3' x 3' area of gravel pad/ central-west side	Crude	3	Absorbents/ handshovels used to remove snow	Incinerated	while depressurizing choke, valve leaked into a drum which overflowed
1/19/89	89360101905	ARCO Alaska, Inc.	y	DS 5, Well 6 SE corner of pad, contained on pad. Light mist on 25 sq. ft area	Crude	3	Loader used to remove material and contaminated snow. melted and taken to pad 3	Approved Landfill	During wellwork operation, material sprayed out of greasehead due to loss of pressure.
1/24/89	89360102402	ARCO Alaska, Inc.	y	DS 14, Well 40, contained on pad	Hydraulic oil	3	A loader scraped up contaminated snow	Recycled	hydraulic hose burst on post hole digger
2/2/89	89360103301	ARCO Alaska, Inc.	y	DS 11, Well 15, East area of pad	Diesel	3	Material & contaminated snow melted	Recycled	during wireline operation,material sprayed fine mist from grease head
2/9/89	89360104004	ARCO Alaska, Inc.	y	COTU fuel terminal, pooled on snow	Diesel	3	Absorbents used on fluid	Incinerated	hose dislodged from fuel tank while refueling
3/5/89	89360106401	ARCO Alaska, Inc.	y	DS 4, Well 28, contained on pad	Hydraulic oil	3	Loader used to remove material, snow. taken to nsb landfill.	Approved Landfill	Hydraulic line ruptured while filling the valves at the tree.
3/5/89	89360106402	ARCO Alaska, Inc.	y	DS 7, Well 12, Contained on pad. 3' x 8' around well house	Crude	3	Vac truck and loader used to remove material and snow. taken to pad 3.	Approved Landfill	During de-icing of well cellar, overflow occured
3/15/89	89360107401	ARCO Alaska, Inc.	y	CGF Module #4955, contained on pad	Engine lube oil	3	Loader used to pick up, taken to pad 3.	Approved Landfill	General accumulation of seal oil being carried out with vapors and accumulating on roof. As cleaning being done, oil fell onto snow packed gravel pad.
4/6/89	89360109601	Dowell Schlumberger	m	Spine Road in front of Otis Tool Co., Prudhoe, 3'of ice and snow on gravel road covered with oil	Engine lube oil	3	Snow and ice picked up by hand shovels, taken to dowell-schlumberger's and put in solid waste container, will eventually be taken to nsb landfill.	Approved Landfill	Truck transmission failed. Transmission overheated and caused overflow.
4/10/89	89360110003	ARCO Alaska, Inc.	y	DS 11, Well 23, Contained on hard packed snow on pad	Crude	3	Hand shovels to remove snow, bagged, melted at pad 14 and recycled at fs 1	Recycled	Faulty O-ring on tanker
4/11/89	89360110104	ARCO Alaska, Inc.	y	FS 1, Snow pack on pad	Crude	3	Loader used to remove contaminated snow. taken to pad 14 for melting, then to pad 3 for injection	Subsurface Injection	Misunderstanding as to who reported spill delayed report. While off-loading to slop oil tank, driver overfilled tank.
5/7/89	89360112702	ARCO Alaska, Inc.	y	DS 1, Well 24, contained on pad	Crude	3	Absorbents used, taken to nsb incinerator	Incinerated	O ring not put back on valve cap.
6/5/89	89360115601	ARCO Alaska, Inc.	y	DS 12, Well 32, contained on pad	Diesel	3	Absorbents used on fluid, taken to nsb incin., gravel shoveled up, taken to pad 3 when temp storage built.	Multiple	
6/5/89	89360115602	ARCO Alaska, Inc.	y	FS 3 South on common line, Hard packed snow	Crude	3	Absorbents soaked up material and small amount of snow. taken to nsb incinerator.	Incinerated	Material observed on pad, suspect cause due to leak during maintenance on flowline.
6/7/89	89360115801	ARCO Alaska, Inc.	y	DS 15, Well 2, contained on pad	Other	3	Handshovels removed material and gravel. taken to pad 3 when temp. storage constructed.	Interim Containment	Arctic Pack and fluids from well were substances discovered near well house.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/7/89	89360115803	ARCO Alaska, Inc.	y	DS 1, Well 15, contained on pad	Crude	3	Absorbent pads, shovel. pads taken to nsb incinerator, gravel held at pad 3 while temp storage being constructed.	Multiple	During well work, a grease head fitting fell and discharged material in a fine mist.
6/7/89	89360115804	ARCO Alaska, Inc.	y	FS 3 near module 4975, contained on ice	Corrosion inhibitor	3	Loader removed material and snow, handshovels removed gravel. taken to pad 3 solid ow pit. gravel to pad 3 when temp storage constructed.	Multiple	mixture corrosion inhibitor and diesel released when bleed drum punctured. Drums placed in overpack.
6/12/89	89360116304	Dowell Schlumberger	y	DS 3, ARCO, contained on pad 6 ft square area.	Hydraulic oil	3	Gravel and dirt scooped up. disposal not given at this time.	Not Given	Mixture 50-50 glycol and water.
6/15/89	89360116603	ARCO Alaska, Inc.	y	DS 17, Well 11, contained on pad	Crude	3	Absorbents used, gravel picked up. sorbents to nsb incinerator, gravel to pad 3.;	Multiple	
6/19/89	89360117007	ARCO Alaska, Inc.	y	DS 18, Well 12, contained on pad	Diesel	3	Absorbents used, gravel picked up. sorbents to nsb incinerator, gravel to nsb solid ow pad	Multiple	During transfer, tank overfilled.
6/19/89	89360117008	ARCO Alaska, Inc.	y	DS 2, Well 24, contained on pad	Diesel	3	Contaminated gravel picked up by shovel. taken to nsb solid ow pad.	Approved Landfill	Leak from faulty valve.
6/19/89	89360117009	ARCO Alaska, Inc.	y	DS 2, Well 4, contained on pad	Diesel	3	Hand shovels used, gravel taken to nsb sowp.	Approved Landfill	Suspected cause due to leak during wireline operation.
6/20/89	89360117102	ARCO Alaska, Inc.	y	DS 14, Well 2, contained on pad	Engine lube oil	3	Absorbents and loader used. sorbents taken to nsb incinerator, gravel to nsb solid ow pad	Multiple	Tractor ruptured line.
6/25/89	89360117603	BPXA	y	CC 2 Pad, Contained on pad	Antifreeze	3	Absorbents used, taken to nsb incinerator. can cleaned and taken to nsb landfill.	Multiple	Vehicle or equipment ran over metal can of anti freeze setting on pad.
6/30/89	89360118104	Pool Arctic Alaska	y	DS 3, Rig 102, gravel pad	Engine lube oil	3	Gravel dug up, taken to sowp disposal at nsb	Approved Landfill	Drum overturned on gravel pad. Product DELO 400 motor oil.
7/6/89	89360118703	ARCO Alaska, Inc.	y	DS 18, Well 25, gravel pad	Drilling muds	3	Absorbents used, bagged, taken to nsb incinerator.	Incinerated	During drilling operation, union wasn't tightened and material sprayed onto the pad in a fine mist.
7/8/89	89360118901	ARCO Alaska, Inc.	y	DS 13, Well 32, contained on pad	Diesel	3	Loader used to remove gravel. taken to nsb sowp.	Approved Landfill	Diesel sprayed out annulus while venting gas.
7/21/89	89360120204	VECO	m	Parker Sublease on VECO pad, gravel	Fuel oil	3	Gravel removed, taken to nsb sowp	Approved Landfill	Discovered during DNR inspection.
7/21/89	89360120205	VECO	m	D. B. M. Sublease on VECO pad, gravel	Fuel oil	3	Gravel removed, taken to nsb sowp	Approved Landfill	Discovered during DNR inspection.
7/23/89	89360120402	ARCO Alaska, Inc.	y	DS 17, Well 8, Gravel	Crude	3	Absorbents used, loader picked up gravel. sorbents to nsb incinerator, gravel to nsb sowp	Multiple	Leak from hardline union during well work.
7/26/89	89360120704	ARCO Alaska, Inc.	y	DS 7, Well 5, contained on pad	Crude	3	Picked up gravel and bagged. taken to nsb sowp	Approved Landfill	Crude and gas released when seal on 2" hardline used to supply raw gas failed.
7/29/89	89360121002	ARCO Alaska, Inc.	y	Hot Water Facility, Contained on pad	Transformer oil	3	Gravel removed and replaced. contaminated gravel taken to nsb sowp	Approved Landfill	Leak in temperature gauge.
8/4/89	89360121601	ARCO Alaska, Inc.	y	DS 1, Well 1 West Sak, Contained on pad	Crude	3	Sorbents used, taken to nsb dumpster for incineration.	Incinerated	1 gal crude, 2 gal seawater spilled when ball valve failed during pressure testing.
8/9/89	89360122304	ARCO Alaska, Inc.	y	DS 17 Well 5, contained on pad	Diesel	3	Gravel removed, taken to nsb sowp.	Approved Landfill	Thermal expansion of diesel in fuel tank caused venting.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/3/89	89360124602	BPXA	y	BOC Fuel pumps, contained in puddles on pad	Gasoline	3	Sorbents used on gasoline, placed in dumpster for disposal at nsb incinerator.	Incinerated	Gasoline spilled onto pad during refueling of unknown vehicle.
9/25/89	89360126804	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Produced water	3	Handshovels removed gravel, taken to nsb sowp.	Approved Landfill	Faulty connection on a block valve.
9/26/89	89360126905	BPXA	m	Module 302, south end, Contained on gravel.	Other	3	Absorbents used, placed in dumpster.	Interim Containment	Big Red Industrial Cleaner spilled on gravel from overturned pail.
10/1/89	89360127402	ARCO Alaska, Inc.	y	DS L5, Well 17, Contained on pad.	Diesel	3	Absorbents used, handshovel removed gravel. absorbents and less than spade of gravel bagged and taken to nsb incinerator.	Incinerated	Material leaked out of bottom of pump while transferring material into a tank.
10/20/89	89360129301	ARCO Alaska, Inc.	y	DS 12, Contained on pad	Emulsion breaker	3	Absorbents used, gravel removed. absorbents to burnable dumpster, gravel to nsb sowp.	Multiple	#8190 Emulsion Breaker.
10/22/89	89360129501	BPXA	y	GC 3, back entrance, Contained on pad	Hydraulic oil	3	Snow and gravel picked up by shovels/loader, placed in tank at a3/w2 for ultimate disposal at t pad.	Interim Containment	Ruptured line on grease truck.
10/23/89	89360129602	BPXA	y	Well A 10, Contained on pad	Diesel	3	Gravel scraped up with grader and loader, taken to nsb owp.	Approved Landfill	O ring failure allowed diesel to vent from top of well house.
10/24/89	89360129702	ARCO Alaska, Inc.	y	J Pad, Contained on pad	Engine lube oil	3	Snow and gravel shoveled up, taken to nsb sowp.	Approved Landfill	Material leaked out of engine when rod punctured block.
11/2/89	89360130602	BPXA	y	BOC Fuel Pumps, Contained on pad	Diesel	3	Sorbents used, placed in dumpster for disposal at nsb incinerator.	Incinerated	Crack discovered in fuel tank on H.B. & R. truck while fueling.
11/9/89	89360131302	BPXA	y	GC 3, Skid 5A, Contained on pad	Produced water	3	Snow removed, melted and injected.	Subsurface Injection	
11/12/89	89360131601	ARCO Alaska, Inc.	y	DS 14 spine road, Contained on pad	Diesel	3	Gravel removed, taken to nsb sowp.	Approved Landfill	Cause unknown, security guard discovered stain on road.
11/17/89	89360932101	ARCO Alaska, Inc.	y	DS 12, Well 29, Contained on pad	Methanol	3	Loader picked up gravel, absorbents for liquid. sorbents to burnable dumpster, 2 yds gravel to nsb sowp.	Incineration/approved Landfill	Moving a trip-plex pump that was still hooked to a methanol tank.
11/21/89	89360132501	ARCO Alaska, Inc.	y	MCC yard by U2 bldg., Contained on pad	Hydraulic oil	3	Gravel removed, taken to nsb sowp.	Approved Landfill	
12/28/89	89360136201	ARCO Alaska, Inc.	y	DS 5 Well 18, Contained on pad	Crude	3	Snow removed to pad 3 for melt down and injection.	Subsurface Injection	Suction hose loosened while cleaning cement plant spilling mixture of 3 gallons crude, 42 gallons of water.
1/3/90	90360100302	ARCO Alaska, Inc.	y	DS 2 Well 4, Contained on pad	Crude	3	Loader removed material, snow, taken to fs 1 for recycle.	Recycled	Mixture 50-50 diesel, crude sprayed from valve body when opened.
1/14/90	90360901403	ARCO Alaska, Inc.	y	DS 3 Well 5, Contained on pad	Methanol	3	Vac truck removed snow and free liquid, taken to pad 3, melted, injected.	Subsurface Injection	Mixture 60% methanol, 40% water spilled when pop-off valve on well overflowed into half drum container.
1/21/90	90360102101	ARCO Alaska, Inc.	y	DS 2 Well 2, Contained on pad	Hydraulic oil	3	Hand shovels used, melted, injected at pad 3.	Subsurface Injection	Hose came out of tank.
1/30/90	90360103002	ARCO Alaska, Inc.	y	COTU, Snow and gravel	Hydraulic oil	3	Loader picked up snow, melted, recycled at fs 1.	Recycled	Ruptured seal on pump.
2/3/90	90360103403	BPXA	y	C Pad CGF road, Contained on right of way.	Hydraulic oil	3	Fluid, snow, ice removed, taken to nsb incinerator.	Incinerated	Houston Construction equipment broke hydraulic line.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/10/90	90360104102	ARCO Alaska, Inc.	y	PBOC Heavy Equipment Storage yard, Contained on gravel	Diesel	3	Gravel removed, taken to nsb sowp.	Approved Landfill	Thermal expansion of fuel tank caused overflow.
2/13/90	90360104401	BPXA	m	BP90-5 STA.265, Ice	Engine lube oil	3	Oil scraped up with shovel, incinerated at seismic camp.	Incinerated	DELO 400 oil leaked from pan gasket seal on vibrator.
3/1/90	90360106001	ARCO Alaska, Inc.	y	DS 9 Well 11, Snow covered gravel pad	Diesel	3	Hand shovels, loader removed material, snow, placed back into mud box and taken to nsb sowp.	Approved Landfill	Mud box not in place to accept material from well.
3/8/90	90360106703	H.C. Price	m	24 Inch Common Line Ice Road between Sag River and ARCO Whse Rd., Snow and ice	Engine lube oil	3	Shoveled up, bagged, taken to burnable dumpster.	Incinerated	Hose on crane broke.
3/12/90	90360107101	BPXA	y	GC3 Pad, Contained in ice on pad	Engine lube oil	3	Absorbents on pooled oil, ice scraped up with shovels. sorbents to burnable dumpster, ice to a3w2 melt tank.	Multiple	Leaks developed when gaskets contracted in cold.
3/13/90	90360107201	ARCO Alaska, Inc.	m	DS 30 Well 7, Contained on pad	Diesel	3	Snow removed by loader, taken to melter. fluid injected at cpf 1, solids 1h ow pit.	Multiple	Following cleanup from workover, spill discovered after they left location.
3/21/90	90360108002	ARCO Alaska, Inc.	y	DS 16 Well 4, Contained on pad	Crude	3	Removed snow, injected at pad 3.	Subsurface Injection	Misted area of crude discovered.
4/4/90	90360909401	ARCO Alaska, Inc.	y	DS 3, Contained on pad	Methanol	3	Snow removed, taken to fs 1 for recycle.	Recycled	Mixture 60/40 methanol/water spilled during transfer from truck to tank.
4/22/90	90360111201	ARCO Alaska, Inc.	y	DS 5, Snow on pad. Light mist of oil.	Crude	3	Handshovels, loader removed material/snow. injected pad 3.	Subsurface Injection	Crude/diesel (50/50) sprayed from vent on tank during transfer.
4/26/90	90360111602	ARCO Alaska, Inc.	y	PBOC behind welding shop, Contained on pad	Crude	3	Absorbents, loader used. absorbents to nsb incinerator, contaminated material melted, injected pad 3.	Multiple	Residual leaked when equipment unbolted.
4/28/90	90360111805	BPXA	m	Pebble Creek, Gravel	Diesel	3	Snow/gravel removed, bagged, taken to a3w2 snow melter.	Interim Containment	Gravel truck crossover line between fuel tanks knocked loose by rocks.
5/5/90	90360112501	ARCO Alaska, Inc.	y	DS 11 Well 22, Contained on pad	Diesel	3	Absorbents used, gravel removed. pads to nsb incin., gravel to pad 3 swdp.	Approved Landfill	Diesel returns from well overfilled slop tank.
5/6/90	90360112602	ARCO Alaska, Inc.	y	DS 17 Well 5, Contained on pad	Diesel	3	Diesel, gravel removed, absorbents used. pads to nsb incinerator, gravel to pad 3 sowp.	Incineration/approved Landfill	Triplex pump leaked.
5/11/90	90360913101	BPXA	y	J Pad Well 20, Contained on pad	Methanol	3	Absorbents used, snow scraped up. pads to nsb incin., snow to melter at a3w2.	Multiple	Fluid dripped from tubing.
5/24/90	90360914401	ARCO Alaska, Inc.	y	CGF, Contained on pad	Other	3	Gravel, snow/ice removed. snow/ice melted, reused in well work. gravel tested as nonhazardous, sent to pad 3.	Approved Landfill	Cans of carboline paint stored on pad, one spilled.
5/27/90	90360114703	ARCO Alaska, Inc.	y	DS 1, Gravel pad	Crude	3	Absorbents used, taken to pad 3.	Approved Landfill	Spray carried over with gas.
6/1/90	90360115201	ARCO Alaska, Inc.	y	DS L1, Contained on pad	Crude	3	Gravel removed by supersucker, taken to pad 3.	Approved Landfill	Wind blew oil from drip pan.
6/6/90	90360115701	BPXA	y	GC 1, Shoulder of pad, sheen on puddle off edge of pad	Hydraulic oil	3	Sorbents on pooled fluid, gravel removed by shovels. pads in burnable dumpster, gravel to a3w2 melt tank.	Multiple	Seal failed on hot tap tool while cutting into flow line.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/13/90	90360916401	ARCO Alaska, Inc.	y	DS 14 Well 6, Contained on pad	Other	3	Gravel removed, taken to pad 3.	Approved Landfill	Biozan gel (1 1/2 lb per 42 gal water) used for pressure control purposes spilled when end of hose came off when pressured up.
6/15/90	90360116601	ARCO Alaska, Inc.	y	DS 5 Well 10, Contained on pad	Crude	3	Absorbents used, gravel removed. pads to nsb incinerator, gravel to pad 3.	Incineration/approved Landfill	Valve on flowline leaked.
6/25/90	90360117602	ARCO Alaska, Inc.	m	Not Given., Gravel Pad	Diesel	3	Sorbents, and taken to nsb incinerator & pad 3 fill 2.	Incinerated	Cause: C2367 Truck overflow.
6/25/90	90360917602	ARCO Alaska, Inc.	y	SIP Pad, Contained on pad	Corrosion inhibitor	3	Absorbents, shovels used, put into overpack drums, taken to hazardous waste storage.	Incineration/approved Landfill	C2367 corrosion inhibitor.
7/16/90	90360119701	Dowell Schlumberger	y	L4 Well 14, Contained on ARCO pad 6 ft area	Diesel	3	Loader removed gravel, absorbents used. gravel to landfill, pads to nsb incinerator.	Incineration/approved Landfill	75% diesel, 25% crude.
7/22/90	90360920302	ARCO Alaska, Inc.	y	DS L1 Nabors 2ES Workover Rig, contained on pad	Diesel	3	Absorbents used, hand shovels removed gravel. pads to nsb incin., gravel to pad 3.	Incineration/approved Landfill	Sight glass ruptured.
7/25/90	90360120601	ARCO Alaska, Inc.	y	DS 4 Well 7, Contained on pad	Hydraulic oil	3	Absorbents used on free liquid, gravel removed. pads to incinerator, gravel to pad 3.	Incineration/approved Landfill	
8/14/90	90360122602	Petro Star Inc.	y	Outside ARCO main Construction camp-Prudhoe, Gravel	Gasoline	3	Absorbents used, evaporation. no disposal given.	Not Given	55 gal drum in back of truck tipped over.
8/19/90	90360123101	ARCO Alaska, Inc.	y	DS 9 Well 42, Gravel pad	Diesel	3	Gravel removed, taken to pad 3.	Approved Landfill	Diesel leaked during perforation operation.
8/25/90	90360123703	BPXA	y	BOC Fuel Pumps, Contained on pad	Gasoline	3	Material removed,taken to arco pad 3.	Approved Landfill	Nozzle allowed kickback during refueling.
9/9/90	90360125202	Alaska Petroleum Contractors	y	DS Maintenance J Pad, 4 x 4 gravel pad	Diesel	3	Liquids absorbed, gravel put into drum. absorbents to nsb incinerator, gravel to pad 3 sw pit.	Incineration/approved Landfill	
9/12/90	90360125502	BPXA	y	Pad A Well 2, Contained on pad	Crude	3	Gravel removed with loader, taken to arco pad 3.	Approved Landfill	
9/12/90	90360225501	Arctic Coiled Tubing	y	DS 13 Well 5, Gravel pad	Gelled water	3	Shoveled into bags, taken to pad 3.	Approved Landfill	Blown O ring.
9/26/90	90360126902	ARCO Alaska, Inc.	y	Central Gathering Facility, Not given	Hydraulic oil	3	Loader removed gravel, taken to pad 3 sowp.	Approved Landfill	
9/28/90	90360127103	ARCO Alaska, Inc.	y	FS 2, Contained on pad	Diesel	3	Absorbents used, shovels removed gravel. pads held at fs 2 for lab results, gravel to pad 3.	Multiple	Fuel line leaked at fitting. 1/2 cu. yd. solids removed.
10/5/90	90360927801	BPXA	y	Pad A Well 30, Contained on pad	Methanol	3	Snow/gravel removed by loader, taken to a3/w2.	Approved Landfill	
10/10/90	90360128301	ARCO Alaska, Inc.	y	DS Maintenance Yard, Contained on pad	Hydraulic oil	3	Loader removed gravel. absorbents to nsb incin., snow/gravel to pad 3 swdp.	Incineration/approved Landfill	During fill, auto shut off failed.
10/15/90	90360928802	ARCO Alaska, Inc.	y	J Pad pump bldg., Gravel pad	Methanol	3	Raked, scraped up gravel, placed in drip pan to steam out liquids which were recycled.	Recycled	Outside valve on discharge line leaked.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/18/90	90360129001	ARCO Alaska, Inc.	y	DS 15 Well 2, Contained on snow on pad	Crude	3	Vac truck used, loader removed gravel. material recycled.	Recycled	28 gal seawater, 3 gal crude spilled during wireline operation.
10/19/90	90360129203	BPXA	y	X Pad Well 12, Contained on pad	Crude	3	Gravel removed, taken to pad 3	Approved Landfill	Diesel/crude leaked during well work.
10/21/90	90360129403	ARCO Alaska, Inc.	y	SIP, Snow on pad	Hydraulic oil	3	Snow removed, stored at pad 3 pending analysis.	Interim Containment	
10/21/90	90360929401	BPXA	y	G Pad Well 6, Contained on pad	Methanol	3	Gravel removed, taken to pad 3.	Approved Landfill	
11/1/90	90360930501	ARCO Alaska, Inc.	y	DS 5 Well 10, Snow on gravel	Methanol	3	Loader removed material, gravel. absorbents used. pads to nsb dumpster, gravel washed and liquids reused. gravel to pad 3 after testing.	Multiple	Material discharged when hardline being bled down. Gravel found to be< 1000 ppm and replaced on pad.
11/17/90	90360132103	ARCO Alaska, Inc.	y	DS 12, Contained on pad	Diesel	3	Absorbents, shovels used. sorbents, gravel to c pad haz waste storage to be shipped to tsd later.	Other	Wheel hub on generator broke, causing it to tip and spill material out vent.
11/17/90	90360232101	ARCO Alaska, Inc.	y	SIP, Contained on snow on gravel	Seawater	3	Hand shovel removed snow. snow melted, reused.	Recycled	
11/22/90	90360132601	BPXA	y	BOC fuel pumps, Snow on pad	Diesel	3	Snow removed by loader, melted a3w2, recycled.	Recycled	
11/25/90	90360132902	Conoco	y	D Pad, Snow, ice, gravel	Diesel	3	Absorbents used, bagged, put in burnable dumpster. gravel to temp storage.	Multiple	
12/3/90	90360133701	BPXA	y	GC 1 Skid 20, Contained on pad	Crude	3	Shovels and loader used to remove contaminant. placed in t pad lined pit.	Interim Containment	
12/16/90	90360135002	Conoco	y	L Pad, Gravel pad	Crude	3	Absorbents used, snow/ice removed. pads to burnable dumpster, material to temp storage berm.	Multiple	Valve froze, residual leaked out. 3 gal crude, 2 gal prod. water for total 5 gal.
1/15/91	91360201501	ARCO Alaska, Inc.	y	DS 9 Well 40, Contained on pad	Seawater	3	Shovels removed snow, melted, recycled at well site.	Recycled	Brine.
1/21/91	91360102103	ARCO Alaska, Inc.	y	DS 3 Well 22, Contained on pad	Diesel	3	Loader removed material; taken to ds maintenance for thaw and reuse.	Recycled	
1/28/91	91360902801	ARCO Alaska, Inc.	y	FS 2, Contained on snow on pad	Methanol	3	Shovels removed snow, melted, injected pad 3. methanol exempt per 40 cfr 261.4(b)(5).	Subsurface Injection	Hatch opened during maintenance.
2/18/91	91360104902	BPXA	y	Well 9 Point McIntyre, Contained on pad	Diesel	3	Loader removed material, taken to t pad pit for summer recovery.	Interim Containment	Otis contractor.
2/19/91	91360905001	BPXA	y	Spine Rd CC2 & N Access, Road	Antifreeze	3	Loader, grader removed material, took to a3w2 melt tank. no disposal given.	Interim Containment	
2/21/91	91360905202	BPXA	m	Unknown, No damage listed	Antifreeze	3	Snow picked up, incinerated on site. area seeded and fertilized.	Incinerated	Contractor GECO spilled when water pump broke in remote area.
2/27/91	91360905801	ARCO Alaska, Inc.	y	CGF, Snow on pad	Antifreeze	3	Shovels used, taken to pad 3 swp.	Approved Landfill	Line corroded.
3/2/91	91360906101	ARCO Alaska, Inc.	y	DS 11 Well 1, 3 x 3 snow on pad	Other	3	Hand shovels removed material, melted, recycled.	Recycled	Seal on sight glass failed leaking soap (WR 6).
3/7/91	91360906601	ARCO Alaska, Inc.	y	STP, 10 sq ft snow on pad	Antifreeze	3	Snow removed, put in 55 gal drum. drum emptied into holding sump for recovery.	Recycled	Plant upset, or may have been material covered by snow during 12-29-90 spill
3/9/91	91360106803	ARCO Alaska, Inc.	y	SIP, Snow on pad	Diesel	3	Absorbents, shovels, loader used. snow melted, recycled ds 3 well 22, gravel to pad 3 sw pit.	Multiple	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/20/91	91360207902	ARCO Alaska, Inc.	y	DS 9 Well 13, Snow on pad	Produced water	3	Hand tools used. snow melted, injected pad 3.	Subsurface Injection	98% produced water, 2% crude.
3/21/91	91360908001	BPXA	y	GC 2 Skid 450, Contained on pad	Antifreeze	3	Loader used. material taken to t pad lined pit.	Interim Containment	Found during inspection.
4/3/91	91360909301	BPXA	y	F Pad Bulk methanol tank, Contained on pad	Methanol	3	Loader removed material; taken to t pad lined pit for summer removal.	Interim Containment	Improper loading procedure.
4/6/91	91360109603	ARCO Alaska, Inc.	y	DS 1 Well 14, Contained on pad	Crude	3	Removed ice/snow, injected pad 3.	Subsurface Injection	While disconnecting lube hose, laid it on snow. Residual leaked out spilling 81% crude, 19% prod. water.
4/11/91	91360110104	BPXA	y	N Pad Well 3, Snow on pad	Crude	3	Loader removed snow, hauled to t pad pit.	Approved Landfill	Diesel/crude discovered during inspection.
4/14/91	91360110403	BPXA	m	Various survey sites, Unknown	Transmission oil	3	Removed as much of contaminated snow as possible. put in nsb incinerator.	Incinerated	Equipment leaks.
4/16/91	91360110601	ARCO Alaska, Inc.	y	FS 2, Snow on pad	Other	3	Loader removed material, took to pad 3.	Approved Landfill	Compressor fluid.
4/16/91	91360210601	Alaska Petroleum Contractors	y	DS 4 Well 13, Snow on gravel	Produced water	3	Absorbents used, loader removed snow. injected pad 3.	Subsurface Injection	Trace of crude.
4/18/91	91360110801	Alaska Petroleum Contractors	y	FS 3, 2 sq ft snow on gravel	Diesel	3	Shovels removed snow; bagged, incinerated nsb.	Incinerated	
4/21/91	91360111102	ARCO Alaska, Inc.	y	FS 2, Snow on pad	Engine lube oil	3	Loader used. material recycled at well.	Recycled	Compressor vented during start up.
5/6/91	91360112601	Alaska Petroleum Contractors	y	DS 7 Well l14, 10 x 40, surface not given	Crude	3	Shovels removed snow. recycled at fs.	Recycled	Flow back of well-crude escaped tiger tank.
5/12/91	91360113202	BPXA	y	F Pad Well 39, 75 x 100 mist on snow on tundra	Crude	3	Loader removed contaminants. taken to t pad pit for summer recovery.	Interim Containment	Fine mist on snow on tundra (about 1 qt.) None reached tundra.
5/27/91	91360514701	BPXA	y	P Pad general locations, Contained on pad	Drilling muds	3	Guzzler sucking up mud. oil spots removed by shovels. mud to ball mill for crushing, injecting, oily material to t pad lined pit.	Multiple	Oil and mud spots from winter well work. Pad monitored during breakup.
5/27/91	91360914701	BPXA	y	BOC Fab Shop, Contained on pad	Antifreeze	3	Floor dry used, scraped up with shovels, bagged. placed in snow melter at a3w2.	Interim Containment	
5/30/91	91360115003	Alaska Petroleum Contractors	y	DS 1, 10 ft diam gravel pad	Crude	3	Absorbents picked up oil, gravel removed by super sucker. pad 3 sw pit.	Approved Landfill	Mechanic hooked hose up backwards on pump.
5/30/91	91360115006	Alaska Petroleum Contractors	y	DS 1, Gravel pad	Crude	3	"all cleaned up" message on recorder. disposal pad 3 swp.	Approved Landfill	On recorder.
5/30/91	91360215001	ARCO Alaska, Inc.	y	DS 1, Gravel pad	Produced water	3	Shoveled up, absorbents used. disposal not given.	Not Given	Produced water and oil. On recorder.
5/31/91	91360915101	BPXA	y	BOC Pad, Gravel pad	Methanol	3	Loader used. gravel taken to a3w2 melt tank for recovery.	Recycled	
6/9/91	91360116007	BPXA	y	Spine Rd., X Access, 25 sq ft tundra	Diesel	3	Gravel removed with shovels, fluids by vac truck. taken to t pad lined pit.	Interim Containment	Suspect vehicle ran off road, spilling diesel, during winter and did not report. Found during inspection. Observed thru summer. No affect to vegetation.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/10/91	91360116102	ARCO Alaska, Inc.	y	DS 11, Contained on pad	Crude	3	Gravel removed, taken to pad 3.	Approved Landfill	On recorder. 50% water/50% crude.
6/12/91	91360916301	ARCO Alaska, Inc.	y	DS 14 Maintenance Bldg., Contained on pad	Other	3	Super sucker removed gravel and fluids. fluids injected pad 3, gravel to pad 3 swp.	Multiple	S-220 scale inhibitor mixed with diesel.
6/16/91	91360116705	Peak Oilfield Services	y	J Pad north end, 7 sq ft gravel	Diesel	3	Contaminated soil removed, taken to disposal berm.	Approved Landfill	
6/22/91	91360117303	BPXA	y	GC1, Contained on pad	Other	3	Absorbents, rags used. scraped with shovel. rags to trash dumpster.	Approved Landfill	Scrubber tank of oily waste water vented.
6/23/91	91360117402	Dowell Schlumberger	y	DS L5 Well 17, Gravel pad	Crude	3	Absorbents used, shovels. gravel to sw dumpster, sorbents to burnable dumpster.	Incineration/approved Landfill	Spill while taking hose off frac tank.
6/30/91	91360118103	BPXA	y	A Pad Well 4, Gravel pad	Crude	3	Gravel removed with shovels, taken to arco pad 3 pit.	Approved Landfill	Leak in lateral line valve.
7/5/91	91360118604	ARCO Alaska, Inc.	y	DS 13 Well 10, 3 x 6 gravel pad	Diesel	3	Loader removed gravel, took to pad 3 sowp.	Approved Landfill	
7/7/91	91360918803	BPXA	y	W Pad 42, Contained on pad	Antifreeze	3	Contaminants shoveled, bagged, taken to t pad lined pit.	Approved Landfill	
7/21/91	91360920201	Camco Wireline	y	J Pad, No enviro. damage	Antifreeze	3	Soaked up with rags. rags taken to camco shop.	Interim Containment	Hole in radiator.
8/5/91	91730121703	BPXA	y	GC3 Skid 70, Contained on pad	Other	3	Contaminants shoveled into bags, taken to t pad lined pit.	Approved Landfill	Seal oil leaked through drain valve and floor boards from defective compressor.
8/7/91	91730921901	ARCO Alaska, Inc.	y	DS 9, Contained on pad	Corrosion inhibitor	3	Shovel removed gravel, bagged. taken to pad 3 sowp.	Approved Landfill	
8/31/91	91730124301	ARCO Alaska, Inc.	y	DS 3 Well 32, 10 x 10 on pad	Crude	3	Absorbents, shovels, loader used. gravel to pad 3, pads to nsb incin.	Incineration/approved Landfill	Leak in elbow of hardline.
9/19/91	91730126202	BPXA	y	X Pad Well 24, Contained on pad	Hydraulic oil	3	Gravel shoveled up, washed in melt tank at a3w2.	Interim Containment	
9/20/91	91730126301	BPXA	y	F Pad southeast edge, Tundra	Diesel	3	Tundra burned with propane torch. areas fertilized, reseeded.	Incinerated	Areas will be monitored during breakup. 6 patches hydrocarbon contam. discovered. Up to 3 in. into tundcra surface.
9/22/91	91730926601	VECO	y	DS 9, 3 x 3 frozen gravel	Antifreeze	3	Absorbents used, bagged, incin. nsb.	Incinerated	
9/23/91	91730126601	Alaska Petroleum Contractors	y	DS 3 Well 2, 3 x 4 Gravel pad	Diesel	3	Loader used. materials taken to pad 3 swp.	Approved Landfill	Open valve on hardline.
9/28/91	91730127101	ARCO Alaska, Inc.	y	DS 11 Well 1, Contained on pad	Diesel	3	Absorbents, loader used. gravel to pad 3, pads to nsb incin.	Incineration/approved Landfill	Triplex pump leaked, overfilled secondary containment area.
10/16/91	91730128901	BPXA	y	X Pad Well 5, Contained on pad	Crude	3	Loader removed material, took to pad 3 lined pit.	Interim Containment	Improper ventilation on receiving tank alllowed 2.5 gal crude and 2.5 gal seawater to mist onto pad.
11/2/91	91730130601	ARCO Alaska, Inc.	y	Heavy Equip. Warm Storage, 2 x 2 gravel	Hydraulic oil	3	Loader removed gravel, took to ds 3 sowp.	Approved Landfill	Recorder.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/8/91	91730134201	Alaska Petroleum Contractors	y	DS 3 Well 35, 3 x 3 snow and ice	Diesel	3	Melted down, taken to fs 1 slop oil tank.	Interim Containment	Thermal expansion in fuel tank.
12/9/91	91730934301	BPXA	m	Price Pad, Contained in snow on pad	Antifreeze	3	Snow/ice scraped up with shovels, bagged, taken to t pad.	Approved Landfill	Glycol discovered on ground when generator moved.
12/10/91	91730134402	BPXA	y	BOC FOC Bullrail, Contained in snow on pad	Engine lube oil	3	All material shoveld into bags, taken to nsb incinerator.	Incinerated	Engine oil filter blew.
1/22/92	92730902201	Alaska Petroleum Contractors	y	Ds 6 Well 22, 13.5 sq ft snow	Other	3	Vacuumed up spill, recycled.	Recycled	Broken sight glass spilled fresh water with half pound biozine.
1/22/92	92730902202	Alaska Petroleum Contractors	y	Ds 6 Well 22, 13.5 sq ft snow	Other	3	Vacuumed up spill, recycled.	Recycled	Broken sight glass spilled fresh water with half pound biozine.
2/10/92	92730104101	ARCO Alaska Inc.	y	DS 7 Well 9, 12 sq ft snow on gravel	Engine lube oil	3	Loader removed snow, recycled fs 1. pads used, incin. nsb.	Multiple	
2/12/92	92730104302	ARCO Alaska Inc.	y	CCP, Not given	Hydraulic oil	3	Cleanup not given. taken to pad 3.	Approved Landfill	Leak from crane due to back pressure.
2/26/92	92730105702	VECO	y	W Pad Well 1, 3 sq ft snow on gravel	Crude	3	Snow removed with shovels. put in bp lined pit at t pad.	Interim Containment	Driver hooked hose to wrong valve.
2/27/92	92730105802	BPXA	y	W Pad Well 1, Contained on pad	Crude	3	Shovels removed snow, taken to t pad.	Approved Landfill	Driver connected hose to wrong fitting. Oil blew out top of holding tank.
2/28/92	92730205901	BPXA	y	U Pad U-51, Contained on pad	Seawater	3	Shovels removed snow, bagged, put in nsb dumpster.	Approved Landfill	Bleed valve opened too much.
2/29/92	92730106001	VECO	y	W Pad Well #1, Not given	Crude	3	Absorbents used. disposal not given.	Not Given	FAXed by troopers.
3/3/92	92730106401	BPXA	y	Pipeline between GC 1 & GC 2, Contained on access road	Transmission oil	3	Loader removed material, put in a3w2 melt tank.	Interim Containment	U bolt on drive shaft sheared off.
3/10/92	92730907102	BPXA	m	Storage Rack TS Bldg., No damage	Antifreeze	3	Scraped up, put in thaw tank.	Interim Containment	Fork lift punctured drum.
3/16/92	92730107602	ARCO Alaska Inc.	yn	DS 1A, Snow on pad	Unknown	3	Shovels removed snow, took to nsb incin.	Incinerated	80% prod. water, 20% crude. Initial report called into recorder, unable to be located by DEC.
3/20/92	92730108002	BPXA	m	Remote Location, Unknown	Transmission oil	3	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/24/92	92730108404	BPXA	m	Remote Location, Unknown	Diesel	3	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
4/3/92	92730109501	BPXA	y	GC2 Skid 25, No damage	Crude	3	Shovels used, snow taken to a3w2 melt tank for recovery.	Interim Containment	Discovered during routine inspection. Oil dripped from side of building.
4/17/92	92730110801	BPXA	y	C Pad module area, Contained on pad	Hydraulic oil	3	Material removed by loader/grader. taken to a3w2 for recovery.	Recycled	
4/20/92	92730111202	ARCO Alaska Inc.	y	DS 9, 6 x 30 snow	Hydraulic oil	3	Shovels used. melted at pad 3.	Subsurface Injection	
4/20/92	92730111205	B.J. Services	y	DS 2-30, 5 sq ft ice/snow on gravel pad	Diesel	3	Shovels used. taken to injection well on pad 3.	Subsurface Injection	
4/30/92	92730112202	ARCO Alaska Inc.	y	MCC fuel yard, Snow	Diesel	3	Snow removed, absorbents used. pads to nsb incin., snow to mcc dumpster then pad 3 sowp.	Multiple	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/1/92	92730112203	Alaska Petroleum Contractors	y	DS 3 near manifold bldg, 2 x 8 snow/ice on gravel	Diesel	3	Loader used. material put in snowmelter for recycle.	Recycled	Pump operator bumped valve during disconnect.
5/3/92	92730112501	BPXA	y	BOC entrance, Snow on pad	Gasoline	3	Snow scraped up with loader, taken to a3w2 melt tank.	Interim Containment	
10/8/95	95399928101	BPXA	y	West Prudhoe Bay, WELL 5-02,	Crude	3	Took Report, Case Closed 01-00-00		Valve Failure
12/8/95	95399934201	BPXA	ym	West North Slope, MPU J PAD, WELL 8,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Seal Failure
12/27/95	95399936101	ARCO	y	East Prudhoe Bay, DS 18,	Hydraulic Oil	3	Took Report, Case Closed 12-27-95		Line Failure
1/13/96	96399901301	BPXA	y	West Prudhoe Bay, Rig 28 E, S Pad,	Other	3	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
1/20/96	96399902001	ARCO	y	POINT MCINTYRE, PM 2,	Other	3	Took Report, Case Closed 01-00-00		Valve Failure
2/3/96	96399903401	NORCON	y	East Prudhoe Bay, SOUTH HANGAR, CORROSION BLDG.,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Line Failure
2/4/96	96399903502	ARCO	y	East Prudhoe Bay, DS 1,	Crude	3	Took Report, Case Closed 01-00-00		Other
2/6/96	96399903702	BPXA	y	West Prudhoe Bay, GC 1 SKID 18,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 01-00-00		Other
3/6/96	96399906602	BPXA	y	West Prudhoe Bay, R PAD WELL 8,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Seal Failure
3/6/96	96399906603	BPXA	y	West Prudhoe Bay, X PAD,	Crude	3	Took Report, Case Closed 01-00-00		Valve Failure
3/6/96	96399906604	BPXA	y	West Prudhoe Bay, DS 9 WELL 1,	Crude	3	Took Report, Case Closed 01-00-00		Overfill
3/11/96	96399907102	ARCO	y	East Prudhoe Bay, FS 3,	Produced Water	3	Took Report, Case Closed 01-00-00		Other
3/16/96	96399907601	ARCO	y	East Prudhoe Bay, TANK DOCK,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Equipment Failure
4/3/96	96399909402	BPXA	y	West Prudhoe Bay, P PAD WELL 20,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Unknown
4/12/96	96399910301	ARCO	y	East Prudhoe Bay, MCC FUEL DOCK,	Diesel	3	Took Report, Case Closed 01-00-00		Valve Failure
4/18/96	96399910903	BPXA	y	West Prudhoe Bay, H-6i,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 01-00-00		Leak
4/26/96	96399911701	ARCO	y	East Prudhoe Bay, DS 16,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Line Failure
4/27/96	96399911801	ARCO	y	East Prudhoe Bay, LPC BULL RAIL,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/6/96	96399912702	BPXA	y	West Prudhoe Bay Y PAD WELL 1,	Crude	3	Took Report, Case Closed 01-00-00		Leak
6/4/96	96399915601	BPXA	ym	West Prudhoe Bay, WELL HOUSE 2-06,	Transmission Oil	3	Took Report, Case Closed 01-00-00		Seal Failure
6/4/96	96399915602	ARCO	y	COTU,	Diesel	3	Took Report, Case Closed 01-00-00		Line Failure
6/25/96	96399917701	ALASKA CLEAN SEAS	y	East Prudhoe Bay, DS 3,	Diesel	3	Took Report, Case Closed 01-00-00		Line Failure
6/29/96	96399918102	BPXA	y	West Prudhoe Bay, F PAD,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 01-00-00		Valve Failure
7/2/96	96399918401	ARCO	y	FS 3, DS 6,7,13,14 & 15,	Diesel	3	Took Report, Case Closed 01-00-00		Leak
7/4/96	96399918601	ARCO	y	East Prudhoe Bay, DS 12,	Crude	3	Took Report, Case Closed 01-00-00		Seal Failure
8/22/96	96399923502	BPXA	y	Z 23,	Crude	3	Took Report, Case Closed 01-00-00		Leak
9/1/96	96399924501	ARCO	y	DS 5,	Other	3	Took Report, Case Closed 01-00-00		Other
9/25/96	96399926901	ARCO	y	FS 1,	Engine Lube Oil	3	Took Report, Case Closed 01-00-00		Leak
10/8/96	96399928201	ANADRILL SCHLUMBERGER	y	EAST CHECK POINT,	Diesel	3	Took Report, Case Closed 01-00-00		Line Failure
10/29/96	96399930302	BPXA	y	GC 1,	Crude	3	Took Report, Case Closed 01-00-00		Overfill
11/19/96	96399932401	ARCO	y	FS 1,	Engine Lube Oil	3	Took Report, Case Closed 01-00-00		Seal Failure
11/30/96	96399933501	BPXA	y	GC 1,	Diesel	3	Took Report, Case Closed 01-00-00		Valve Failure
12/8/96	96399934301	VECO	y	East Prudhoe Bay, DS 1 SPINE RD,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 01-00-00		Line Failure
1/23/97	97399902303	BPXA	y	West Prudhoe Bay, Well Pad F,	Diesel	3	Took Report, Case Closed 01-00-00		Seal Failure
2/4/97	97399903502	ARCO	y	East Prudhoe Bay, DS 9,	Crude	3	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
2/6/97	97399903701	BPXA	y	East Prudhoe Bay, DS 3 WELL 3,	Diesel	3	Phone Follow-up, Case Closed 01-00-00		Overfill
4/21/97	97399911101	B.P.	y	West North Slope, B.P. H PAD.,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 01-00-00		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/21/97	97399911102	BPXA	y	West North Slope, BP Well Pad H.,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 05-12-97		Leak
4/27/97	97399911701	B.P.	y	West North Slope, B.P. PAD S.,	Crude	3	Took Report, Case Closed 01-00-00		Valve Failure
5/1/97	97399912101	B.P	y	West North Slope, B.P. Well Pad F.,	Crude	3	Took Report, Case Closed 01-00-00		Valve Failure
5/1/97	97399912103	B.P.	y	West North Slope, B.P. Well Pad Z.,	Engine Lube Oil	3	Took Report, Case Closed 06-06-97		Unknown
5/1/97	97399912105	ARCO	y	West North Slope, BP Well Pad F.,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 05-21-98		Line Failure
5/15/97	97399913501	BPXA	y	West North Slope, BP Well Pad N.,	Hydraulic Oil	3	Took Report, Case Closed 05-24-97		Unknown
5/23/97	97399914302	BPXA	y	West North Slope, BP Well Pad P.,	Diesel	3	Took Report, Case Closed 06-17-97		Leak
6/24/97	97399917502	ARCO	y	EAST NORTH SLOPE, ARCO DS 15.,	Crude	3	Took Report, Case Closed 01-00-00		Valve Failure
10/3/97	97399927602	BPXA	y	West North Slope, BP C 3 APD SKID 481.,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 10-15-97		Leak
10/16/97	97399928902	BPXA	y	West Prudhoe Bay, Well Pad C,	Crude	3	Took Report, Case Closed 10-21-97		Valve Failure
11/10/97	97399931403	ARCO	y	EAST NORTH SLOPE, ARCO CGF.,	Other	3	Took Report, Case Closed 01-00-00		Overfill
11/14/97	97399931801	DOWELL SCHLUMBERGER	y	EAST NORTH SLOPE, ARCO DS 2.,	Crude	3	Took Report, Case Closed 01-00-00		External Factors
12/7/97	97399934102	B.P	y	West North Slope, B.P. Well Pad N.,	Hydraulic Oil	3	Took Report, Case Closed 03-16-98		Leak
1/18/98	98399901801	B.P.	ym	West North Slope, B.P. GC-1 PAK SKID 3.,	Other	3	Took Report, Case Closed 01-00-00		External Factors
2/4/98	98399903502	ARCO	y	EAST NORTH SLOPE, ARCO DS 01.,	Corrosion Inhibitor	3	Took Report, Case Closed 01-00-00		Leak
2/20/98	98399905103	ARCO	y	EAST NORTH SLOPE, ARCO CGF.,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 01-00-00		Leak
3/6/98	98399906503	B.P.	ym	West North Slope. B.P.,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 01-00-00		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/6/98	98399906501	BPXA	y	EAST NORTH SLOPE, BP Well Pad C.,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 03-31-98		Valve Failure
3/6/98	98399906502	ARCO	y	EAST NORTH SLOPE, ARCO L2 PAD.,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Leak
3/18/98	98399907701	ARCO	y	EAST NORTH SLOPE, ARCO DS 16.,	Crude	3	Took Report, Case Closed 01-00-00		Corrosion
4/3/98	98399909301	VECO	ym	EAST NORTH SLOPE, VECO.,	Engine Lube Oil	3	Took Report, Case Closed 01-00-00		Leak
4/10/98	98399910003	VECO	y	EAST NORTH SLOPE, VECO/ARCO DS 17 WELL 14.,	Other	3	Took Report, Case Closed 01-00-00		Valve Failure
4/13/98	98399910303	B.P.	ym	EAST NORTH SLOPE, B.P.,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 01-00-00		Leak
4/19/98	98399910904	B.P.	y	West North Slope, B.P. Well Pad H.,	Corrosion Inhibitor	3	Took Report, Case Closed 01-00-00		Seal Failure
4/30/98	98399912001	B.P.	y	EAST NORTH SLOPE, B.P. NORTHWEST EILEEN #2.,	Diesel	3	Took Report, Case Closed 10-09-98		Leak
5/19/98	98399913901	B.P.	y	West North Slope, B.P. Well Pad Y.,	Hydraulic Oil	3	Took Report, Case Closed 06-22-98		Seal Failure
6/2/98	98399915306	ARCO	y	EAST NORTH SLOPE, ARCO L2.,	Crude	3	Took Report, Case Closed 01-00-00		Leak
6/8/98	98399915901	B.P.	y	West North Slope, B.P. Well Pad C,	Other	3	Took Report, Case Closed 12-03-99		Leak
6/8/98	98399915903	B.P.	y	West North Slope, Well Pad C.,	Other	3	Took Report, Case Closed 01-00-00		Leak
6/10/98	98399916102	B.P.	y	West North Slope, B.P. Well Pad G (G-4),	Crude	3	Took Report, Case Closed 06-18-98		Leak
6/17/98	98399916801	ARCO	y	EAST NORTH SLOPE, ARCO DS 15,	Crude	3	Took Report, Case Closed 01-00-00		Leak
7/16/98	98399919701	B.P.	y	West North Slope, Well Pad J.,	Crude	3	Took Report, Case Closed 01-00-00		Leak
8/31/98	98399924301	BPXA	y	West Prudhoe Bay, BP, BOC PAD,	Hydraulic Oil	3	Took Report, Case Closed 08-31-98		Line Failure
9/8/98	98399925101	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, DRILL SITE 5-17,	Hydraulic Oil	3	Took Report, Case Closed 01-00-00		Line Failure
9/25/98	98399926801	BPXA	y	West Prudhoe Bay, BP, Well Pad C,	Crude	3	Phone Follow-up, Case Closed 07-06-99		Valve Failure
2/10/99	99399904101	BPXA	ym	EAST NORTH SLOPE, ENDICOTT, SDI, 10' EAST OF SKID,	Transmission Oil	3	Took Report, Case Closed 02-10-99		Vehicle Leak, All
3/24/99	99399908301	BPXA	y	BP, Well Pad E,	Crude	3	Took Report, Case Closed 03-28-99		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/2/99	99399909202	BPXA	y	Gathering Center 3 (GC-3),	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 06-01-99		Leak
4/13/99	99399910301	BP/HB&R	y	West Prudhoe Bay, Well Pad D,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 04-14-99		Equipment Failure
4/25/99	99399911502	BPXA	y	West Prudhoe Bay, G PAD,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 04-26-99		Valve Failure
4/26/99	99399911601	HOUSTON CONTRACTING	y	West Prudhoe Bay, GPMA, WEST BEACH STATE PAD,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 04-26-99		Equipment Failure
5/26/99	99399914601	BPXA	y	West Prudhoe Bay, Well Pad E,	Hydraulic Oil	3	Took Report, Case Closed 05-27-99		Tank Failure
6/16/99	99399916701	ARCO ALASKA	y	EAST NORTH SLOPE, DS 15 WELL 34,	Produced Water	3	Took Report, Case Closed 06-16-99		Unknown
6/24/99	99399917502	ARCO	y	ARCO, DS 6,	Diesel	3	Took Report, Case Closed 06-30-99		Line Failure
7/28/99	99399920901	ARCO ALASKA	ym	EAST NORTH SLOPE, CGF, OUTSIDE MOD 4906,	Therminal	3	Took Report, Case Closed 07-28-99		Leak
8/14/99	99399922601	PEAK OILFIELD SERVICE CO	y	East Prudhoe Bay, FLOW STA 1, SEAWATER INJECTION P,	Seawater	3	Took Report, Case Closed 08-14-99		Line Failure
9/11/99	99399925401	BPXA	y	West Prudhoe Bay, CENTRAL POWER STATION,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 09-15-99		Seal Failure
9/11/99	99399925402	BPXA	y	West Prudhoe Bay, CPS, SKID 122,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 10-11-99		Seal Failure
9/14/99	99399925702	BPXA	ym	BP, SANTA FE PAD,	Diesel	3	Took Report, Case Closed 09-20-99		Vehicle Leak, All
10/12/99	99399928503	ARCO ALASKA	ym	East Prudhoe Bay, DS15 BY WELL 27,	Diesel	3	Took Report, Case Closed 10-13-99		Leak
10/12/99	99399928504	WESTERN GEOPHYSICAL	ym	West Prudhoe Bay, WEST DOCK PAD,	Diesel	3	Took Report, Case Closed 10-12-99		Valve Failure
10/13/99	99399928601	ARCO ALASKA	y	East Prudhoe Bay, DS3, WELL 23,	Corrosion Inhibitor	3	Took Report, Case Closed 11-01-99		Seal Failure
10/19/99	99399929201	ARCO ALASKA	y	East Prudhoe Bay, DS4 WELL 32,	Diesel	3	Took Report, Case Closed 10-20-99		Overfill

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/1/99	99399930501	PEAK OILFIELD SER/ ARCO ALASKA	ym	West North Slope, DS-9 PIPELINE ROAD,	Diesel	3	Took Report, Case Closed 12-28-99		Sinking
11/27/99	99399933101	PEAK OILFIELD SER/ARCO ALASKA	y	East Prudhoe Bay, PBOC PARKING IN FRONT OF FIRE ST,	Engine Lube Oil	3	Took Report, Case Closed 11-28-99		Leak
1/22/00	00399902201	NABORS DRILLING/BP EXPLORATION	y	West Prudhoe Bay, Well Pad D,	Diesel	3	Took Report, Case Closed 01-22-00		Overfill
2/4/00	00399903501	WESTERN GEOPHYSICAL/ ARCO	y	East Prudhoe Bay, AURORA 3-D WOA, BEGIN (N70,17.59,	Hydraulic Oil	3	Took Report, Case Closed 02-04-00		Equipment Failure
3/14/00	00399907401	DOWELL SCHLUMBERGER/BPX	ym	East Prudhoe Bay, DRISS SITE 1, WELL 12,	Crude	3	Took Report, Case Closed 03-16-00		External Factors
3/20/00	00399908001	BPXA	y	West Prudhoe Bay, Well Pad D,	Crude	3	Took Report, Case Closed 03-21-00		Valve Failure
4/3/00	00399909402	COBURN MACHINE/WEATHERFORD	ym	PRUDHOE BAY STORAGE LOT 5, BLOCK 50, BLDG TIW BY A,	Engine Lube Oil	3	Took Report, Complaint/Report Received 04-03-00		Seal Failure
4/6/00	00399909701	BPXA	y	West Prudhoe Bay, Well Pad B,	Crude	3	Took Report, Case Closed 04-11-00		Leak
4/7/00	00399909803	NABORS DRILLING/BP EXPLORATION	y	East Prudhoe Bay, ARCO, DRILL SITE 03,	Crude	3	Took Report, Case Closed 04-08-00		Unknown
4/12/00	00399910302	ARCO ALASKA	ym	East Prudhoe Bay, COTU, NEAR FLARE KNOCK OUT PUMP,	Crude	3	Took Report, Case Closed 04-23-00		Tank Failure
4/21/00	00399911201	BPXA	y	West Prudhoe Bay, Well Pad E MODULE,	Engine Lube Oil	3	Took Report, Case Closed 04-23-00		External Factors
5/25/00	00399914601	PHILLIPS ALASKA	y	East Prudhoe Bay, WORK RAIL AT FLEET SHOP,	Hydraulic Oil	3	Took Report, Case Closed 05-29-00		Unknown
7/7/00	00399918903	BP EXPLORATION/ NABORS DRILLING	y	West North Slope, Well Pad W,	Hydraulic Oil	3	Took Report, Case Closed 07-09-00		Line Failure
7/17/00	00399919902	PHILLIPS ALASKA	y	East Prudhoe Bay, EAST OPERATING AREA DRILL SITE 1,	Diesel	3	Took Report, Case Closed 07-26-00		Leak
8/8/00	00399922101	BPXA	y	East Prudhoe Bay, DRILLSITE 14-18,	Crude	3	Took Report, Case Closed 08-15-00		Equipment Failure
8/14/00	00399922703	BPXA	y	East Prudhoe Bay, SEAWATER INJECTION PLANT,	Diesel	3	Took Report, Case Closed 08-15-00		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/17/00	00399926103	BPXA	ym	West Prudhoe Bay, Well Pad J-10 WELLHOUSE,	Crude	3	Took Report, Case Closed 09-18-00		Seal Failure
9/28/00	00399927202	BPXA	ym	East Prudhoe Bay STP ACCESS ROAD,	Hydraulic Oil	3	Took Report, Case Closed 10-09-00		Line Failure
9/30/00	00399927401	BPXA	y	East Prudhoe Bay, CENTRAL COMPRESSOR PLANT,	Hydraulic Oil	3	Took Report, Case Closed 10-09-00		Leak
10/7/00	00399928101	BPXA	ym	West Prudhoe Bay, Well Pad J-3 WELL CELLAR,	Diesel	3	Took Report, Case Closed 10-08-00		Valve Failure
10/26/00	00399930001	NORDIC/BP EXPLORATION ALASKA	y	West Prudhoe Bay, Well Pad B,	Drilling Muds	3	Took Report, Case Closed 10-26-00		Other
10/31/00	00399930501	BPXA	ym	West Prudhoe Bay, Well Pad N-16 WELL HOUSE,	Hydraulic Oil	3	Took Report, Case Closed 10-31-00		Seal Failure
11/16/00	00399932101	BPXA	y	West Prudhoe Bay, G-PAD ACCESS ROAD WEST OPERATING,	Hydraulic Oil	3	Took Report, Case Closed 11-16-00		Line Failure
12/7/00	00399934201	PEAK OILFIELD SER/BP EXPLORATION	y	Well Pad Y,	Hydraulic Oil	3	Took Report, Case Closed 12-07-00		Leak
12/11/00	00399934603	PURCELL/ ARCO	ym	West North Slope AOC/ BUS PARKING LOT,	Diesel	3	Took Report, Case Closed 12-11-00		Seal Failure
12/14/00	00399934902	ALASKA PETROLEUM CONT/BP EXPLORATIO	y	West North Slope Well Pad S,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 12-14-00		Gauge/Site Glass Failure
12/22/00	00399935701	PEAK OILFIELD/BP EXPLORATION	y	East Prudhoe Bay, DRILL SITE 12,	Hydraulic Oil	3	Took Report, Case Closed 01-10-01		Seal Failure
1/9/01	01399900901	HALLIBURTON SERVICES/ BPX	ym	West North Slope NIAKUK Well Pad,	Crude	3	Took Report, Case Closed 01-10-01		Leak
1/19/01	01399901901	DOWELL SCHLUMBERGER/BPX (AK)	y	East Prudhoe Bay, DRILL SITE 2,	Hydraulic Oil	3	Took Report, Case Closed 01-22-01		Line Failure
1/27/01	01399902701	LITTLE RED SER/BP EXPLORATION	y	East Prudhoe Bay, DRILL SITE 15 WELL 15-41,	Crude	3	Took Report, Case Closed 02-07-01		Seal Failure
2/4/01	01399903503	HOUSTON/ BPX	y	West North Slope Well Pad-U,	Engine Lube Oil	3	Took Report, Case Closed 02-04-01		Leak
2/13/01	01399904403	FAIRWEATHER /EXXON	ym	EAST NORTH SLOPE FLAXMAN ISLAND A-1 RESERVE PIT,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 02-17-01		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/18/01	01399904904	PURCELL SVC. LTD./ BPX	ym	EAST NORTH SLOPE MAIN CONSTRUCTION CAMP,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 02-18-01		Leak
3/19/01	01399907801	FAIRWEATHER /EXXON	ym	EAST NORTH SLOPE ICE ROAD AT G-2 PAD,	Diesel	3	Took Report, Case Closed 03-19-01		Leak
3/21/01	01399908005	BPXA	y	EAST NORTH SLOPE DRILL SITE 6-24,	Seawater	3	Took Report, Case Closed 03-21-01		Leak
3/22/01	01399908102	VECO ALASKA INC.	y	EAST NORTH SLOPE DRILL SITE 06,	Seawater	3	Took Report, Case Closed 03-26-01		Leak
3/23/01	01399908203	SCHLUMBERGER/ BPX	y	EAST NORTH SLOPE Well Pad E,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 03-23-01		Leak
4/10/01	01399910004	BPXA	y	EAST NORTH SLOPE DRILL SITE 16-23,	Engine Lube Oil	3	Took Report, Case Closed 04-10-01		Leak
4/15/01	01399910503	PEAK OILFIELD SERVICES CO.	y	West North Slope L-PAD,	Diesel	3	Took Report, Case Closed 04-15-01		Overfill
4/21/01	01399911102	PEAK OILFIELD SERVICES CO.	y	EAST NORTH SLOPE ACCESS ROAD(EOA),	Diesel	3	Took Report, Case Closed 04-21-01		Unknown
4/25/01	01399911502	BPXA	y	EAST NORTH SLOPE DRILL SITE 06,	Hydraulic Oil	3	Took Report, Case Closed 04-25-01		Valve Failure
5/7/01	01399912701	AK PETRO CONT/PHILLIPS ALASKA	ym	West North Slope, CD1, WELL #45 TANK FARM,	Crude	3	Took Report, Case Closed 05-07-01		Valve Failure
5/7/01	01399912702	HALLIBURTON/ BPX	y	East Prudhoe Bay PBOC,	Diesel	3	Took Report, Case Closed 05-07-01		Leak
6/10/01	01399916102	ASCG/ BPX	ym	EAST NORTH SLOPE DRILL SITE MAINTENANCE,	Engine Lube Oil	3	Took Report, Case Closed 06-10-01		Leak
6/10/01	01399916101	BPXA	y	EAST NORTH SLOPE DRILL SITE 15/29,	Crude	3	Took Report, Final Report 08-25-01		Equipment Failure
6/14/01	01399916501	BPXA	y	West North Slope Well Pad P,	Crude	3	Took Report, Case Closed 06-14-01		Leak
6/20/01	01399917101	BPXA	y	EAST NORTH SLOPE DS 13-33,	Crude	3	Took Report, Case Closed 06-20-01		Leak
6/22/01	01399917301	BPXA	y	EAST NORTH SLOPE DRILL SITE 13,	Crude	3	Took Report, Case Closed 06-22-01		Leak
7/2/01	01399918301	BPXA	y	EAST NORTH SLOPE DS 14/17,	Crude	3	Took Report, Case Closed 07-02-01		Leak
7/4/01	01399918501	NORCON/ BPX	ym	West North Slope SPINE ROAD UP FROM BRIDGE,	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 07-04-01		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/16/01	01399919705	BPXA	y	West North Slope Well Pad K,	Hydraulic Oil	3	Took Report, Case Closed 07-21-01		Seal Failure
7/17/01	01399919804	FAIRWEATHER INC./ BPX	ym	West Prudhoe Bay ACCESS ROAD,	Other	3	Took Report, Case Closed 07-19-01		Cargo Not Secured
8/3/01	01399921501	BPXA	y	West Prudhoe Bay Well Pad S,	Crude	3	Took Report, Case Closed 08-05-01		Unknown
8/29/01	01399924101	BPXA	y	Well Pad Y,	Diesel	3	Took Report, Case Closed 09-04-01		Seal Failure
9/18/01	01399926101	BPXA	y	Drill Site 6,	Crude	3	Took Report, Case Closed 09-19-01		Line Failure
10/7/01	01399928001	BPXA	y	Main Construction Camp (MCC),	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 10-08-01		Equipment Failure
11/1/01	01399930504	BPXA	y	East Prudhoe Bay, DRILLSITE 9,	Transmission Oil	3	Took Report, Case Closed 11-04-01		Equipment Failure
11/16/01	01399932001	BPXA	y	BP, PBU, Well Pad D,	Crude	3	Took Report, Case Closed 11-16-03		Leak
11/29/01	01399933302	BPXA	y	West Prudhoe Bay Well Pad S,	Ethylene Glycol (Antifreeze)	3	Took Report, Final Report 12-01-01		Vehicle Leak, All
1/23/02	02399902301	BPXA	y	Drill Site 6,	Crude	3	Phone Follow-up, Case Closed 05-28-02		Valve Failure
2/17/02	02399904803	DOWELL SCHLUMBERGER/BP EXPLORATION	y	Well Pad S,	Methyl Alcohol (Methanol)	3	Took Report, Final Report 03-03-02		Unknown
3/13/02	02399907201	BPXA	y	Drill Site 13,	Corrosion Inhibitor	3	Took Report, Case Closed 03-18-02		Seal Failure
3/15/02	02399907401	DOWELL SCHLUMBERGER/BP EXPLORATION	y	BP, Well Pad Y,	Seawater	3	Took Report, Case Closed 03-22-02		Seal Failure
3/17/02	02399907601	BPXA	ym	Checkpoint-Central,	Hydraulic Oil	3	Took Report, Case Closed 03-18-02		Seal Failure
3/17/02	02399907602	PEAK OILFIELD SER/BP EXPLORATION	y	VMS Building,	Diesel	3	Took Report, Complaint/Report Received 03-20-02		Equipment Failure
3/24/02	02399908302	ALASKA PETROLEUM CONT/BP EXPLORATIO	y	DS L2,	Methyl Alcohol (Methanol)	3	Took Report, Final Report 04-10-02		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/8/02	02399909802	BPXA	y	Well Pad X,	Methyl Alcohol (Methanol)	3	Took Report, Complaint/Report Received 04-09-02		Equipment Failure
4/18/02	02399910801	BPXA	ym	Santa Fe Pad,	Hydraulic Oil	3	Took Report, Case Closed 04-19-02		Line Failure
4/23/02	02399911303	BPXA	y	Drill Site 18,	Methyl Alcohol (Methanol)	3	Took Report, Final Report 04-25-02		Valve Failure
5/7/02	02399912704	BPXA	y	C-09,	Diesel	3	Took Report, Case Closed 05-08-02		Human Error
6/6/02	02399915701	BPXA	y	West Dock,	Diesel	3	Took Report, Final Report 06-12-02		Equipment Failure
7/13/02	02399919402	BPXA	y	Drill Site 1 (DS-1),	Crude	3	Field Visit/s, Case Closed 07-15-02		Unknown
8/27/02	02399923902	BPXA	y	West Dock,	Hydraulic Oil	3	Took Report, Complaint/Report Received 08-27-02		Human Error
10/21/02	02399929401	ASCI	y	Well Pad C,	Other	3	Took Report, Case Closed 10-22-02		Unknown
10/25/02	02399929802	First Energy(FESCO) /BPX	y	Well Pad H,	Diesel	3	Took Report, Case Closed 10-28-02		Line Failure
12/3/02	02399933701	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Well Pad W,	Ethylene Glycol (Antifreeze)	3	Took Report, Complaint/Report Received 12-04-02		Line Failure
1/16/03	03399901601	BPXA	y	W PAD,	Hydraulic Oil	3	Took Report, Case Closed 01-17-03		Human Error
1/26/03	03399902601	VECO ALASKA/BP EXPLORATION (ALASKA)	ym	East Prudhoe Bay,	Diesel	3	Took Report, Complaint/Report Received 01-28-03		Equipment Failure
1/28/03	03399902801	Schlumberger/D owell/BPX	y	BP, Well Pad D,	Seawater	3	Took Report, Final Report 01-30-03		Human Error
2/8/03	03399903901	BPXA	y	Well Pad V,	Diesel	3	Took Report, Final Report 02-10-03		Human Error
5/30/03	03399915002	BPXA	y	Central Gas Facility (CGF),	Diesel	3	Took Report, Case Closed 06-02-03		Line Failure
6/5/03	03399915603	BPXA	y	East Prudhoe Bay PBOC,	Diesel	3	Took Report, Case Closed 06-06-03		Other
7/23/03	03399920404	BPXA	y	Gathering Center 2 (GC-2),	Ethylene Glycol (Antifreeze)	3	Took Report, Case Closed 07-25-03		Human Error
8/30/03	03399924202	BPXA	y	GPMA drillsites,	Hydraulic Oil	3	Took Report, Case Closed 09-02-03		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/20/03	03399935401	BPXA	ym	Santa Fe Pad,	Hydraulic Oil	3	Took Report, Case Closed 12-22-03		Equipment Failure
1/19/04	04399901901	BPXA	y	POINT MCINTYRE, PM 2,	Corrosion Inhibitor	3	Took Report, Case Closed 01-20-04		Gauge/Site Glass Failure
1/21/04	04399902103	Total Energy Partners USA	ym	Lake R0211,	Hydraulic Oil	3	Phone Follow-up, Case Closed 01-22-04		Line Failure
2/12/04	04399904302	BPXA	y	Main Construction Camp (MCC),	Engine Lube Oil	3	Took Report, Case Closed 02-17-04		Line Failure
2/15/04	04399904601	BPXA	y	West Prudhoe Bay, F PAD,	Corrosion Inhibitor	3	Took Report, Case Closed 02-17-04		Equipment Failure
2/24/04	04399905501	BPXA	y	Well Pad F,	Diesel	3	Phone Follow-up, Case Closed 03-15-04		Valve Failure
2/24/04	04399905502	BPXA	y	CPS Maintenance/Central Skid,	Diesel	3	Took Report, Case Closed 02-26-04		Unknown
2/25/04	04399905602	BPXA	ym	Lake Eileen, NW,	Hydraulic Oil	3	Took Report, Case Closed 02-26-04		Line Failure
4/3/04	04399909404	BPXA	y	Flow Station 1 (FS-1),	Natural Gas Liquids	3	Took Report, Case Closed 04-05-04		External Factors
4/14/04	04399910502	BPXA	y	Drill Site 2,	Crude	3	Phone Follow-up, Case Closed 05-10-04		Equipment Failure
5/2/04	04399912302	BPXA	y	Well Pad S,	Hydraulic Oil	3	Took Report, Case Closed 05-03-04		Equipment Failure
5/4/04	04399912502	BPXA	y	East Prudhoe Bay, SRT PAD,	Hydraulic Oil	3	Took Report, Case Closed 05-10-04		Line Failure
5/21/04	04399914201	BPXA	y	West Prudhoe Bay, Well Pad U,	Hydraulic Oil	3	Took Report, Case Closed 05-24-04		Equipment Failure
5/29/04	04399915002	BPXA	y	Well Pad J,	Crude	3	Took Report, Case Closed 06-04-04		Other
5/30/04	04399915102	BPXA	ym	SPINE ROAD, DEADHORSE,	Diesel	3	Took Report, Case Closed 06-03-04		Human Error
6/6/04	04399915801	BPXA	ym	West Prudhoe Bay ACCESS ROAD,	Transmission Oil	3	Took Report, Case Closed 06-07-04		Equipment Failure
6/20/04	04399917201	BPXA	y	Drill Site 2,	Diesel	3	Took Report, Case Closed 06-24-04		Equipment Failure
6/25/04	04399917701	BPXA	y	Drill Site 7,	Crude	3	Took Report, Case Closed 07-08-04		Leak
7/30/04	04399921203	BPXA	ym	Checkpoint-Central,	Engine Lube Oil	3	Took Report, Case Closed 07-31-04		Equipment Failure
8/5/04	04399921801	BPXA	y	W PAD,	Diesel	3	Phone Follow-up, Case Closed 08-10-04		Leak
8/16/04	04399922901	BPXA	y	Well Pad K,	Hydraulic Oil	3	Took Report, Case Closed 08-18-04		Seal Failure
10/2/04	04399927601	BPXA	y	Well Pad J,	Hydraulic Oil	3	Took Report, Case Closed 10-06-04		Equipment Failure
10/4/04	04399927801	BPXA	y	Well Pad V,	Crude	3	Phone Follow-up, Case Closed 10-05-04		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/6/04	04399934102	BPXA	y	Lisburne Production Center (LPC),	Methyl Alcohol (Methanol)	3	Phone Follow-up, Case Closed 02-07-05		Line Failure
2/6/05	05399903702	SCHLUMBERGER WELL SERVICES.	ym	DEADHORSE, SPINE ROAD,	Ethylene Glycol (Antifreeze)	3	Phone Follow-up, Case Closed 02-07-05		Line Failure
2/17/05	05399904802	BPXA	y	WEST DOCK ROAD,	Hydraulic Oil	3	Took Report, Case Closed 02-24-05		Equipment Failure
2/21/05	05399905201	BPXA	y	POINT MCINTYRE, PM 2,	Diesel	3	Took Report, Case Closed 03-08-05		Line Failure
2/26/05	05399905701	BPXA	ym	Chemical Tank Dock,	Hydraulic Oil	3	Took Report, Case Closed 03-01-05		Equipment Failure
3/14/05	05399907304	BPXA	y	POINT MCINTYRE, PM 2,	Transmission Oil	3	Took Report, Case Closed 03-16-05		Seal Failure
3/19/05	05399907801	BPXA	y	U-11 Bldg,	Hydraulic Oil	3	Phone Follow-up, Case Closed 03-21-05		Equipment Failure
4/16/05	05399910601	Marsh Creek Government Ser.	ym	Lonely Dew Line Site,	Ethylene Glycol (Antifreeze)	3	Phone Follow-up, Case Closed 04-25-05		Line Failure
6/28/05	05399917901	ASRC Energy Ser (formerly APC)	y	Well Pad A,	Corrosion Inhibitor	3	Took Report, Case Closed 06-30-05		Valve Failure
8/19/05	05399923101	BPXA	y	Drill Site 6, Drillsite 6, Well 14 Well Casing leak	Crude	3	Phone Follow-up, Final closure pending 07-24-07		Line Failure
10/13/05	05399928601	BPXA	y	West Prudhoe Bay, BOC PAD,	Diesel	3	Took Report, Case Closed 10-17-05		Equipment Failure
2/12/06	06399904303	BPXA	ym	East Prudhoe Bay,	Hydraulic Oil	3	Took Report, Case Closed 02-13-06		Other
2/16/06	06399904701	ASRC Energy Ser (formerly APC)	y	West Prudhoe Bay, X PAD, WOA X-Pad, Well 13 Spill	Corrosion Inhibitor	3	Took Report, Case Closed 02-21-06		Valve Failure
3/28/06	06399908701	BPXA	y	Drill Site 7,	Methyl Alcohol (Methanol)	3	Phone Follow-up, Case Closed 03-31-06		Collision/Allision
4/21/06	06399911102	BPXA	y	Seawater Treatment Plant (STP),	Seawater	3	Took Report, Case Closed 04-24-06		Line Failure
5/6/06	06399912602	BPXA	y	Central Gas Facility (CGF),	Therminal	3	Took Report, Case Closed 07-10-06		Human Error
5/9/06	06399912902	BPXA	y	Flow Station 1 (FS-1),	Corrosion Inhibitor	3	Took Report, Final Report 05-20-06		Gauge/Site Glass Failure
5/13/06	06399913302	BPXA	y	ARCO, J-PAD,	Hydraulic Oil	3	Phone Follow-up, Case Closed 05-19-06		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/8/06	06399915902	ASRC Energy Ser (formerly APC)	y	Drill Site 14,	Corrosion Inhibitor	3	Took Report, Case Closed 06-12-06		Leak
6/10/06	06399916102	BPXA	y	Well Pad L,	Diesel	3	Took Report, Case Closed 07-24-06		Seal Failure
7/3/06	06399918402	BPXA	y	FLEET SHOP,	Diesel	3	Took Report, Case Closed 07-05-06		Overfill
7/10/06	06399919101	BPXA	y	Flow Station 2 (FS-2),	Engine Lube Oil	3	Phone Follow-up, Case Closed 10-09-06		Corrosion
7/10/06	06399919102	BPXA	y	Flow Station 2 (FS-2),	Engine Lube Oil	3	Took Report, Case Closed 08-16-06		Leak
8/4/06	06399921602	BPXA	ym	Central Checkpoint,	Diesel	3	Took Report, Case Closed 08-16-06		Human Error
8/8/06	06399922001	BPXA	y	MOWF STORES,	Hydraulic Oil	3	Took Report, Case Closed 08-09-06		Line Failure
8/21/06	06399923301	BPXA	y	Well Pad W,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 08-23-06		Valve Failure
9/5/06	06399924802	BPXA	y	Well Pad B, Well Pad B, Well b-26 Diesel Leak	Diesel	3	Took Report, Case Manager Assigned 07-12-07		Line Failure
9/7/06	06399925002	ASRC Energy Services	y	WEST DOCK ROAD,	Hydraulic Oil	3	Took Report, Case Closed 09-14-06		Equipment Failure
10/13/06	06399928603	BPXA	y	Flow Station 1 (FS-1),	Diesel	3	Phone Follow-up, Complaint/Report Received 10-20-06		Crack
10/20/06	06399929302	ASRC Energy Services	y	East Prudhoe Bay, DRILL SITE 16, BP East Prudhoe Bay	Corrosion Inhibitor	3	Phone Follow-up, Final Report 10-24-06		Seal Failure
11/4/06	06399930802	ASRC Energy Services	y	Lisburne Production Center (LPC),	Transmission Oil	3	Took Report, Complaint/Report Received 11-09-06		Line Failure
12/25/06	06399935902	ASRC Energy Services	y	Well Pad Z,	Methyl Alcohol (Methanol)	3	Took Report, Case Closed 12-26-06		Human Error
01/17/07	07399901701	ASRC Energy Services	y	Pad 3,	Transmission Oil	3	Took Report, Case Closed 02-14-07		Line Failure
01/23/07	07399902301	BPXA	y	South Hangar,	Hydraulic Oil	3	Took Report, Complaint/Report Received 01-29-07		Crack
01/30/07	07399903001	BPXA	y	Well Pad B,	Corrosion Inhibitor	3	Took Report, Case Closed 02-01-07		Equipment Failure
02/01/07	07399903203	BPXA	y	Flow Station 3 (FS-3), BP East Prudhoe Bay	Engine Lube Oil	3	Took Report, Complaint/Report Received 02-07-07		Other
03/01/07	07399906001	ASRC Energy Ser (formerly APC)	y	DS L2,	Engine Lube Oil	3	Took Report, Case Closed 03-03-07		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
03/05/07	07399906404	ASRC Energy Ser (formerly APC)	y	Well Pad A,	Corrosion Inhibitor	3	Phone Follow-up, Case Closed 03-08-07		Valve Failure
06/08/07	07399915901	BPXA	y	Drill Site 4, BP East Prudhoe Bay	Hydraulic Oil	3	Took Report, Case Closed 06-20-07		External Factors
06/09/07	07399916001	BPXA	y	Drill Site 4,	Hydraulic Oil	3	Took Report, Final Report 07-16-07		Equipment Failure
06/21/07	07399917202	BPXA	y	Drill Site 2, BP East Prudhoe Bay	Diesel	3	Took Report, Case Closed 06-25-07		Valve Failure
08/01/07	07399921302	BPXA	y	Drill Site 14,	Hydraulic Oil	3	Took Report, Case Closed 08-16-07		Equipment Failure
09/05/07	07399924802	ASRC Energy Services	ym	West Prudhoe Bay, MOWF STORAGE YARD, BP- West	Diesel	3	Phone Follow-up, Complaint/Report Received 09-13-07		Leak
09/29/07	07399927202	BPXA	Y	Drill Site 4, Drill Site 4	Diesel	3	Took Report, Complaint/Report Received 10-08-07		Overfill
11/25/07	07399932901	BPXA	Y	South Hanger, South Hanger	Diesel	3	Took Report, Complaint/Report Received 11-27-07		Equipment Failure
9/4/06	06399924701	BPXA	y	Well Pad C,	Hydraulic Oil	2.5	Took Report, Case Closed 09-07-06		Equipment Failure
11/13/06	06399931702	ConocoPhillips Alaska	ym	CPAI Kuparuk Oliktok 12-acre staging pad,	Diesel	2.5	Took Report, Case Closed 12-08-06		Human Error
08/29/07	07399924102	ASRC Energy Services	y	Well Pad F, BP-West	Corrosion Inhibitor	2.5	Took Report, Case Closed 09-04-07		Seal Failure
12/15/80	80360135001	Morrison-Knudsen-NANA	m	Sec. 12, T11N, R10E, Not Given	Hydraulic oil	2	Not given	Not Given	Data entered 9-22-89 from handwritten reports.
3/1/81	81360106001	Sohio	y	GC 1, Skid 4A, PBF, Not given	Crude	2	Not given.	Not Given	Entered 9-27-89 from old records. Follow up 3/2/81 and 7/23/81.
3/29/81	81360108801	Sohio	y	GC 2, Prudhoe, Not given.	Condensate	2	Not given.	Not Given	Entered 9-28-89 from old records. Water and condensate. Follow up 4-6 and 7-27-81.
4/4/81	81360109401	Sohio	y	GC 2, Skid 4A, Not given.	Crude	2	Not given.	Not Given	Entered 10-24-89 from old records. Follow up dates 5-4-81 and 7-27-81.
7/8/81	81360118901	Sohio	y	D Pad, Prudhoe, Not given.	Hydraulic oil	2	Not given.	Not Given	Entered 10-30-89 from old records. Follow up 8-7 and 9-23-81.
7/16/81	81360119701	Sohio	y	MPC Well 22-11-12, Not given.	Crude	2	Not given.	Not Given	Entered 10-30-89 from old records. Follow up 8-7-81.
8/12/81	81360122401	ARCO Alaska, Inc.	y	FS 1 Module 4958, None	Diesel	2	Absorbents used, gravel removed. sorbents to nsb incinerator, gravel spreak on road in front of prudhoe bay airport.	Multiple	Entered 11-2-89 from old records. Follow up 8-24-81.
8/30/81	81360124202	Sohio	y	GC-2, Skid 21, Not given.	Diesel	2	Not given.	Not Given	Entered 11-17-89 from old records. Follow up 9-2, letter 12-1-81.
1/20/83	83360102001	SOHIO	y	Well R-7 PBF, None: contained in snow.	Crude	2	Oiled snow shoveled up.		Entered from old records 5-11-90.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/4/83	83360103502	SOHIO	y	F Pad Prudhoe, Unknown	Engine lube oil	2	Oiled snow removed.	Unknown	Cause: Leaking motor on ASAG Boom Truck. Entered from old records 6/16/90.
7/21/83	83360120201	SOHIO	y	F Pad Well House F 2, Unknown	Diesel	2	Sorbents, p/u in bucket.	Not Given	Cause: Refueling spill. Entered from old records 6/26/90.
2/26/85	85360105703	ARCO Alaska, Inc.	y	NGL Compressor CPF#1 Kuparuk,	Engine lube oil	2	Sorbents	Incinerated	
4/27/85	85360111703	Sohio	y	stores yard, boc pad,	Methanol	2	Snow scaped up with shovels	Subsurface Injection	
5/22/85	85360114203	Sohio	m	Tiger Tank,	Crude	2	Scraped with 966 bucket		
7/15/85	85360119604	ARCO Alaska, Inc.	y	Sag Bridge,	Crude	2	Sorbents, boom underneath bridge		
7/15/85	85360119606	ARCO Alaska, Inc.	y	Sagavanirktok R. bridge,	Crude	2	Booms downstream and under bridge, boat	Incinerated	
8/9/85	85360122101	Sohio	y	GC-1 Skid 31,	Glycol	2	Contaminated gravel shoveled up		
11/11/85	85360131501	ARCO Alaska, Inc.	y	C Pad, Containment Pit/Prudhoe,	Hydraulic oil	2	Scraped up		
2/7/86	86360103801	Sohio Alaska Petroleum Company	y	A Pad, Northeast Section,	Hydraulic oil	2	Shoveled up contaminated material		
8/11/86	86360122302	Standard Alaska Production Com	y	F-Pad, Well #31,	Hydraulic oil	2	Soaked w/sorbents-contaminated gravel scraped up	Incineration/approved Landfill	
8/25/86	86360123701	Standard Alaska Production Com	y	GC-II, Skid 16,	Crude	2	Contaminated gravel scraped up	Taken To F-pad For Recovery	Cause: Shut down for maintenance work.
11/9/86	86360131301	National Structures, Inc.	m	Prudhoe Bay,	Hydraulic oil	2	Soaked up w/sorbents-contaminants scraped up	Incinerated	
12/11/86	86360934501	ARCO Alaska, Inc.	y	Pad 10,	Methanol	2	Contaminants scraped up	Interim Containment	
3/22/87	87360908101	Standard Alaska Production Com	y	DS 14 Spine Road,	Acid	2	Contaminants scraped up by arco/neutralized	Padspred	Also reported by ARCO
6/28/87	87360117901	ARCO Alaska, Inc.	y	DS 4,	Diesel	2	Contaminants scraped up	Padspred	
6/28/87	87360117903	ARCO Alaska, Inc.	y	DS 3,	Crude	2	Contaminants scraped up	Oil Recycled/solids To Nsb Landfill	
7/4/87	87360118503	ARCO Alaska, Inc.	y	DS 5, Well 5, Area around E-Line mast unit	Hydraulic oil	2	Soaked up with sorbents	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/9/87	87360119001	Udelhoven Oilfield Services	y	Seawater Treatment Plant Pad,	Hydraulic oil	2	Contaminated gravel scraped up	Padspred	
10/3/87	87360127604	ARCO Alaska, Inc.	y	NGI, #13 Well, Approximately 5 square feet of pad between wells	Diesel	2	Soaked up with sorbents	Incinerated	
11/15/87	87360131902	Standard Alaska Production Com	y	CSTF WOA,	Diesel	2	Soaked up with sorbents-contaminants scraped up	Incinerated	
1/7/88	88360900701	Standard Alaska Production Com	m	Southside of 302,	Glycol	2	Contaminants scraped up	Approved Landfill	
1/23/88	88360102301	ARCO Alaska, Inc.	y	DS L2,	Synthetic gear oil	2	Soaked up with sorbents	Incinerated	Cracked engine casing.
2/2/88	88360103301	ARCO Alaska, Inc.	y	DS 5, Well 17,	Crude/diesel	2	Soaked up with sorbents	Incinerated	
2/3/88	88360103401	ARCO Alaska, Inc.	y	DS 3, Well 13,	Diesel	2	Contaminants scraped up	Interim Containment	Vented from trailer.
3/10/88	88360107004	ARCO Alaska, Inc.	y	DS 12, Well 7A, Area around leaking lubricator stuffing box	Diesel	2	Contaminants scraped up	Incinerated	
3/20/88	88360108001	ARCO Alaska, Inc.	y	CCP, Turbine 1804, Area around 2 inch hose being rolled out	Water/lube oil	2	Soaked up w/sorbents-contaminants scraped up	Sorbs Incinerated-contams To Pad 3	
3/22/88	88360108203	ARCO Alaska, Inc.	y	DS 4,	Transmission oil	2	Contaminants scraped up	Interim Containment	
4/20/88	88360111101	ARCO Alaska, Inc.	m	Pipeline State #1,	Hydraulic oil	2	Vacuumed liquid-soaked up w/sorbs-contams scraped	Sorbs Incin-contams To Pad 3	
5/24/88	88360114501	ARCO Alaska, Inc.	y	DS 5, Well 9,	Crude	2	Soaked up with sorbents/contaminants scraped up	Sorbs Incin/contams Melted Down	
6/11/88	88360116302	ARCO Alaska, Inc.	y	DS 9, DS 9	Crude	2	Vacuumed up	Approved Landfill	Cause: unknown; noticed on top of melt water
6/11/88	88360116304	ARCO Alaska, Inc.	m	Wax Freeze Road, West side of the Read KPOC Lagoon	Crude	2	Soaked up w/sorbents	Incinerated	
6/13/88	88360116501	ARCO Alaska, Inc.	y	DS 16, Well 17, DS 16, Well 17	Diesel	2	Contaminated gravel picked up;sorbents used too	Incinerated	Cause: tri-plex trailer vents leaked while doing an operation
6/19/88	88360117104	ARCO Alaska, Inc.	y	Surfcote Drilling Storage yard, contained on pad	Crude	2	Absorbents	Incinerated	unknown cause

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/21/88	88360117305	ARCO Alaska, Inc.	y	Surfcoat - Drilling,	Diesel	2	Contained	Incinerated	
6/23/88	88360117501	ARCO Alaska, Inc.	y	DS 2, Well 26, DS 2, Well 26	Diesel	2	Used sorbents; contaminated gravel was bladed in.	Incinerated	Cause: See damage field
6/23/88	88360117504	Standard Alaska Production Com	y	R pad, 1 square yard	Diesel	2	Sorbents used/snow and ice removed	Incinerated	
6/24/88	88360117602	ARCO Alaska, Inc.	y	CCP, contained on pad	Lube oil	2	Scraped up using a loader	Other	material is Ideal Plus(seal oil)/level controller switch failed
6/26/88	88360117802	ARCO Alaska, Inc.	y	DS 3, South End,	Crude	2	Contaminated gravel scraped up	Approved Landfill	
7/1/88	88360128304	Standard Alaska Production Com	y	Well W-42, see damage	Diesel	2	In water used absorbents/gravel removed	Multiple/see Comments	Contaminated snow pushed off pad. Area monitored through summer for further contamination/none found
7/3/88	88360118501	ARCO Alaska, Inc.	m	Pad, See damage field	Diesel	2	Soaked up gravel & removed to nsb landfill	Approved Landfill	called to Gail Funk 7/6/88
7/5/88	88360118704	ARCO Alaska, Inc.	y	CCP Module 214904, CCP Module 214904	Glycol	2	Scooped up gravel		
7/29/88	88360121101	ARCO Alaska, Inc.	y	DS 18, Well 14, on gravel pad behind wellhouse	Diesel	2	Absorbents	Incinerated	
7/30/88	88360121202	ARCO Alaska, Inc.	y	DS 7, Well 18, contained on pad	Diesel	2	Absorbents/residue bladed into a 5'x5' pad area	Approved Landfill	
7/30/88	88360121205	Standard Alaska Production Com	y	Well Q-5, all contained on pad next to wellhouse	Crude	2	Absorbents/contaminated gravel scraped up	Multiple/see Disposal	valve to be repaired/replaced
7/31/88	88360121301	ARCO Alaska, Inc.	y	FS 1, contained on pad	Hydraulic oil	2	Absorbents	Incinerated	
8/2/88	88360121501	ARCO Alaska, Inc.	y	FS 3, on gravel	Crude	2	Absorbents used/gravel picked up using shovels	Incineration/approved Landfill	Faulty guage.
8/4/88	88360121703	ARCO Alaska, Inc.	y	CCP, contained on pad	Lubricating oil	2	Loader used to removed contaminated gravel		Seal oil trap malfunction.
8/6/88	88360121902	ARCO Alaska, Inc.	y	DS 4, Well 19, contained on pad	Crude/diesel	2	Shovels used to remove contaminated gravel	Approved Landfill	
8/6/88	88360121904	ARCO Alaska, Inc.	y	Crude Oil Topping Unit, contained on pad	Diesel	2	Shovels used to remove contaminated gravel	Approved Landfill	
8/7/88	88360122001	ARCO Alaska, Inc.	y	DS 3, Well 22, contained on pad	Diesel	2	Absorbents/shovels used to remove gravel	Incineration/approved Landfill	
8/8/88	88360122102	ARCO Alaska, Inc.	y	CCP, Regen skid area, contained on pad	Triethylene glycol	2	Absorbents	Approved Landfill	Bucket tipped over.
8/16/88	88360122905	ARCO Alaska, Inc.	y	DS 16, Well 11, 10' x 20' area on gravel pad	Gasoline	2	Gravel was graded back into surface of pad	Padspred	during bleed-down material sprayed out of a tank vent due to high rate

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/26/88	88360123901	Standard Alaska Production Com	y	Spine Road near CC-3, contained on road	Paint	2	Painted gravel removed	Incinerated	
8/27/88	88360124001	Standard Alaska Production Com	y	N Pad Skid 56, contained on pad	Crude	2	Contaminate removed	Approved Landfill	
8/31/88	88360124401	ARCO Alaska, Inc.	y	FS 1, contained on pad	Crude	2	Absorabents used/ shovels to pick up con. gravel	Incinerated	truck hose not properly drained and material leaked onto pad
9/16/88	88360126002	ARCO Alaska, Inc.	y	DS Maintenance Pad, contained on pad	Glycol and water	2	Absorbents used, hand shovels for gravel	Incinerator & Oily Waste Pit	Material discharged to pad.
9/17/88	88360126102	ARCO Alaska, Inc.	y	DS 11, Well 12, contained on pad	Hydraulic oil	2	Absorbents, hand shovels on gravel	Incineration/approved Landfill	Hose on lift truck broke.
9/18/88	88360126204	Standard Alaska Production Com	y	VECO warehouse, contained on pad	Diesel	2	Scraped up contaminated gravel	Approved Landfill	possible fuel tank on vehicle overflow due to expansion
9/22/88	88360126602	Standard Alaska Production Com	y	BOC and Spine Raod, contained in ice and snow	Gasoline	2	Sorbents	Incinerated	Xerox truck slid off BOC access road from spine road into impoundment
10/18/88	88360129201	ARCO Alaska, Inc.	y	FS 2 spine road to DS 9, spine road to DS 9	Crude	2	None feasible due to small amt over extensive area		Leaking valve on tanker.
10/24/88	88360129803	Unknown (reported by ARCO)	m	Spine rd.,E. check point, contained on road	Engine lube oil	2	Oil and snow removed by shovel	Approved Landfill	spill observed by Purcell security who cleaned up, Arco not involved
10/29/88	88360130304	ARCO Alaska, Inc.	y	DS 13, Well 30, contained on pad	Crude	2	Grader removed snow and material	Approved Landfill	material sprayed out vent due to high gas pressure during bleed-down
11/9/88	88360131402	ARCO Alaska, Inc.	y	DS 6, Well 12, contained on pad	Diesel	2	Absorbents on material, hand shovels on snow/ice	Incinerated	material sprayed from relief valve due to excess pressure during test
11/26/88	88360133102	ARCO Alaska, Inc.	y	DS 11, contained on pad	Hydraulic oil	2	Absorbents for material, shovels for snow	Incinerated	hose ruptured while pumpig material into equipment
12/5/88	88360134005	SAPC Endicott	y	W-24, contained on pad	Hydraulic oil	2	Loader scraped up material	Recycled	hydraulic line broke leading to the lubricator
12/11/88	88360134602	ARCO Alaska, Inc.	y	FS 1, contained on pad	Crude	2	Loader picked up/removed material/snow	Approved Landfill	tanker top-hatch not latched, material sloshed out onto pad
12/14/88	88360135001	ARCO Alaska, Inc.	y	FS 2, contained on pad	Crude	2	Snow picked up by shovel	Approved Landfill	tanker truck hose leaked due to insufficient vacuum
12/15/88	88360134903	ARCO Alaska, Inc.	y	FS 2, contained on pad	Crude	2	Snow cleaned up by shovel	Recycled	tanker truck hatch leak
12/19/88	88360135401	Otis Engineering	m	Unknown,	Hydraulic oil	2	Picked up and put in red bags		

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/18/89	89360101804	ARCO Alaska, Inc.	y	FS 3 Common Line 13B 6C, Contained on snow pack in 1 x 1 area.	Crude	2	Handshovels used to remove material and contaminated snow. taken to pad 3 following melting.	Approved Landfill	
1/23/89	89360102303	ARCO Alaska, Inc.	y	DS 4, Well 7, contained on pad	Produced water	2	Used shovels to pick up snow-put in plastic bags	Recycled	leaking valve on 400 bbl upright tank
1/29/89	89360102902	SAPC Endicott	y	BOC Annex 1 Parking lot, contained on pad	Antifreeze	2	Contaminated snow removed with loader	Recycled	antifreeze leaked from vehicle due to extreme cold
2/1/89	89360103201	ARCO Alaska, Inc.	y	DS 2, well 1,south area of pad, 3'x3' area of snow packed gravel pad	Antifreeze	2	Handshovels used to remove material & con. snow		Suspect radiator leak.
2/5/89	89360103503	ARCO Alaska, Inc.	y	DS 17, Module 4971, 25'x4' area on north end of snow packed gravel pad	Scale inhibitor	2	Loader used to removed material and con. snow		leaked from connection on a chemical tank line & sprayed mist on pad
2/11/89	89360104203	ARCO Alaska, Inc.	y	DS 7, Well 12, contained on pad	Crude	2	Snow scraped up by loader. absorbents on fluid	Incineration/approved Landfill	slop oil tank overfilled during bleed down. Mix of 70% crude/30%diesel
2/17/89	89360104803	BPXA	m	Causeway intersection, not given	Engine lube oil	2	Contaminated snow scooped up	Approved Landfill	probable cause-vehicle ruptured line, sprayed oil on road
2/22/89	89360105302	ARCO Alaska, Inc.	y	DS 6, Well 10 well house, contained on snow packed gravel pad	Diesel	2	Loader and shovels used to scrape up snow	Approved Landfill	Blown O ring during pressure testing
3/3/89	89360106201	ARCO Alaska, Inc.	y	DS L2 Manifold Building, contained on pad	Hydraulic oil	2	Loader used to remove material and contaminated snow. taken to nsb landfill.	Approved Landfill	Material leaked from snowblower due to faulty seal on filter.
3/7/89	89360106604	ARCO Alaska, Inc.	y	DS 4 Manifold Building, contained on pad	Hydraulic oil	2	Scraped up with loader, taken to nsb ow pit	Approved Landfill	Chemical truck hydraulic tank overfilled.
3/14/89	89360107306	ARCO Alaska, Inc.	y	CCP, Contained on pad	Antifreeze	2	Loader removed material and contaminated snow. taken to nsb landfill.	Approved Landfill	Ruptured radiator hose on welding machine.
3/20/89	89360107904	ARCO Alaska, Inc.	y	FS 3 Parking lot, contained on pad	Antifreeze	2	Shoveled snow. taken to fs glycol skid.	Recycled	Pickup truck developed leak in radiator hose. Mixture 50% glycol, 50% water.
3/30/89	89360108902	ARCO Alaska, Inc.	y	DS 9, Well 28, None. Contained on pad.	Crude	2	Absorbents used on fluid. contaminated snow removed by hand shovels. absorbents incinerated, snow melted, taken to pad 3.	Multiple	During wireline operation, elbow in hardline leaked material onto pad.
3/30/89	89360108904	ARCO Alaska, Inc.	y	DS 5, Manifold Bldg., Dike and Pad	Crude	2	Loader used to pick up contaminated snow. taken to ds maintenance to be melted down, then to pad 3 for disposal.	Approved Landfill	Gas surge in tank inside building vented out into containment area. It overflowed containment dike and sprayed out onto pad.
4/10/89	89360110002	ARCO Alaska, Inc.	y	L3 close to Manifold Building, Contained on pad	Hydraulic oil	2	Hand shovels and absorbents used. absorbents incinerated, fluid re-cycled at fs 1.	Multiple	Crane overturned during transport. Hose probably broken.
4/12/89	89360110202	ARCO Alaska, Inc.	y	DS 14, Well 2, contained on snow pack on pad	Crude	2	Loader used to remove snow. melted, taken to pad 3, injected	Subsurface Injection	During well flowback operation a high flow rate caused a mist to vent from the flowback tank
4/16/89	89360110601	ARCO Alaska, Inc.	y	DS 11, Well 5, Contained on snow on pad	Hydraulic oil	2	Hand shovels on snow and material. absorbents for fluid. incinerated at nsb incinerator	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/17/89	89360110701	ARCO Alaska, Inc.	y	LPC, Contained on snow on pad	Crude	2	Hand shovels on snow and material. melted and taken to pad 3	Approved Landfill	Mixture of 90% water, 10% crude spilled when gasket on truck leaked.
4/19/89	89360110902	ARCO Alaska, Inc.	y	PBOC (Prudhoe Operations Central), contained on snow on pad	Antifreeze	2	Snow picked up by shovel, melted and recycled	Recycled	Forklift punctured drum while moving drum
4/23/89	89360111302	ARCO Alaska, Inc.	y	DS 13, Well 23, contained on pad	Heavy grease	2	Loader scraped up snow, taken to pad 3	Approved Landfill	Material liquid O-ring grease spilled when packoff lost while logging in well.
4/26/89	89360111601	ARCO Alaska, Inc.	y	Central Gas Facility, contained on pad	Transmiss ion oil	2	Hand shovels used, recycled at cgf	Recycled	Ruptured hose on pickup truck.
5/8/89	89360112801	ARCO Alaska, Inc.	y	Pad 3, contained on snow on gravel	Crude	2	Loader used to remove material and snow, placed back into pad 3 pit.	Approved Landfill	Mixture 50-50 crude/diesel spilled when steam hose in pit blew material up onto dike of pit.
5/20/89	89360114005	ARCO Alaska, Inc.	y	DS 17, Well 4, contained on snow covered pad, 10 x 20 ft	Diesel	2	Shovels and loader used. material placed back into tank for reuse.	Recycled	Dirty Diesel spilled while venting gas during flowback. Light mist carried over onto pad.
5/30/89	89360115002	BPXA	y	ARCO Bulk Station, Gravel pad	Diesel	2	1/3 cubic yds gravel scraped up, delivered to santa fe pad and put in containment gravel pit. sorbents to nsb incinerator.	Multiple	Dry lock on tanker failed to close, allowing diesel to spill. No tundra or water affected.
5/30/89	89360115007	BPXA	y	ARCO bulk station, None	Diesel	2	Absorbents used, gravel removed. sorbents incinerated, gravel to santa fe pad to containment pit.	Multiple	Dry lock on tanker failed to close.
6/1/89	89360115202	ARCO Alaska, Inc.	y	DS 9 next to manifold building, contained on pad	Corrosion inhibitor	2	Sorbents used, bagged, taken to nsb incinerator	Incinerated	Suspected cause vent carry over from storage tank.
6/2/89	89360115305	ARCO Alaska, Inc.	y	DS 11 Manifold Bldg, contained on pad	Crude	2	Absorbents used, taken to nsb incinerator.	Incinerated	When depressurizing line some crude carried over.
6/12/89	89360116303	Dowell Schlumberger	y	DS 3, Well 12 ARCO Eastern Operating area, contained on pad	Antifreeze	2	Scraped up gravel, taken to ds. disposal method in final report.	Unknown	
6/15/89	89360116601	ARCO Alaska, Inc.	y	DS 17, Well 11, contained on pad	Methanol	2	Sorbents used, taken to nsb incin. contaminated gravel shoveled up, taken to nsb oily waste pit.	Multiple	Mixture 60% methanol, 40% water released when valve packing on tanker leaked.
6/18/89	89360116902	ARCO Alaska, Inc.	y	DS 18, Well 18, Contained on pad	Diesel	2	Absorbents used, gravel shoveled up, taken to nsb incinerator.gravel to nsb sowp	Multiple	Leaking O-ring
6/19/89	89360117101	ARCO Alaska, Inc.	y	DS 1 near module, contained on pad	Crude	2	Handshovels used to remove material and gravel. taken to nsb sowp.	Approved Landfill	Found under slop oil container when moved.
6/21/89	89360117203	ARCO Alaska, Inc.	y	DS 2, Well 9, contained on gravel pad	Diesel	2	Absorbents used, handshovels on gravel. sorbents to nsb incinerator, gravel to solid ow pit	Multiple	Material sprayed from faulty relief valve during wellwork.
7/14/89	89360119804	ARCO Alaska, Inc.	y	CPF 1, contained on pad	Diesel	2	Oiled gravel removed, placed in drip tank for disposal at temp sowp	Approved Landfill	4" bullplug located near bottom of tank was dripping.
7/15/89	89360119701	ARCO Alaska, Inc.	y	DS L1, Well 1, contained on pad	Diesel	2	Picked up gravel. took to nsb waste site.	Approved Landfill	Pumps used in pressure testing during E line operation developed a leak at pump discharge.
7/16/89	89360119703	ARCO Alaska, Inc.	y	DS 7, Westward Rig #4, gravel pad	Crude	2	Loader removed contaminated gravel, taken to nsb sowp	Approved Landfill	Observed material on pad after rig moved.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/18/89	89360119901	ARCO Alaska, Inc.	y	Hot Water Plant east of ARCO airstrip, gravel pad	Corrosion inhibitor	2	Absorbents used, hand shovels used to remove gravel, bagged taken to nsb incinerator	Incinerated	Mixture 95% water, 5% corrosion inhibitor sprayed out of tanker due to high feed rate.
7/19/89	89360120002	ARCO Alaska, Inc.	y	DS 3, contained on pad	Diesel	2	Hand shovels to remove gravel, taken to nsb sowp.	Approved Landfill	Leaking hose.
7/21/89	89360120203	VECO	m	Fracmaster Sublease on VECO pad, gravel	Engine lube oil	2	Gravel removed, taken to nsb sowp	Approved Landfill	Valve dripping lubricants from equipment. Discovered during DNR inspection.
7/21/89	89360120206	BPXA	m	West Check Point, gravel	Antifreeze	2	Fluids soaked up, contaminated gravel removed. sorbents to nsb incinerator, gravel to santa fe pad.	Multiple	
7/23/89	89360120404	BPXA	y	Y Pad, Less than 1/2 gal onto adjacent pond.	Crude	2	Contaminate removed from pond with solvent. gravel removed from dike wall. gravel to nsb pit and sorbent to nsb incinerator.	Multiple	No tundra affected, all oil removed.
7/23/89	89360120405	ARCO Alaska, Inc.	y	DS 3, contained on pad	Diesel	2	Absorbents used, bagged taken to nsb incinerator, shoveled gravel, took to nsb sowp.	Multiple	Mixture hydraulic and diesel from winter vehicle leaks.
7/23/89	89360120406	Pool Arctic Alaska	y	DS 3, contained on pad	Hydraulic oil	2	Contaminated area dug up, disposed of at sowp.	Approved Landfill	Mixture hydraulic and diesel, no ratios given, spilled when hose leaked.
8/7/89	89360121902	ARCO Alaska, Inc.	y	Dock Road 1 mile south of West staging area, contained on gravel road	Transmission oil	2	Absorbents used, taken to nsb incinerator.	Incinerated	Line from transmission to cooler ruptured
8/8/89	89360122008	ARCO Alaska, Inc.	y	FS 1, gravel	Engine lube oil	2	Gravel removed, taken to nsb sowp.	Approved Landfill	Leak from loose tubing connection.
8/20/89	89360123201	ARCO Alaska, Inc.	y	DS 13 Manifold Bldg, contained on pad	Corrosion inhibitor	2	Contaminated gravel picked up, taken to nsb sowp.	Approved Landfill	80% C-129 corrision inhibitor, 20% diesel vented when truck driver raised tank pressure during offloading.
9/17/89	89360126002	ARCO Alaska, Inc.	y	DS 5 Manifold Bldg, contained on pad	Crude	2	Absorbents, super suckers used. sorbents to nsb incin., gravel to nsb sowp.	Multiple	Drain system overflow. Spill quantity 1 1/2 gal.
9/23/89	89360126602	ARCO Alaska, Inc.	y	DS 16, Well 15, contained on pad	Diesel	2	Absorbents used, gravel removed. gravel to nsb sowp, sorbents to burnable dumpster.	Multiple	Wind blew door of triplex pump against 2" camlock hose clamp which loosened and began to leak.
9/29/89	89360127203	ARCO Alaska, Inc.	m	Fire Training Area (single well test pad), Contained on pad	Crude	2	Gravel removed and placed in sand jet tank, sent to 1h owp.	Approved Landfill	Original report to recorder never received. Leaking valve on tank.
10/4/89	89360127702	ARCO Alaska, Inc.	y	FS 1 slop oil tank, Contained on pad	Crude	2	Super suckers used to remove gravel, taken to nsb sowp.	Approved Landfill	Unit not level on pad. Filled unevenly and crude spilled out.
10/6/89	89360127901	BPXA	y	BOC Fuel Pumps, Contained on pad	Gasoline	2	Absorbents used, taken to nsb for incineration.	Incinerated	Faulty pump nozzle.
10/6/89	89360127902	BPXA	m	End of U 241 Piperack, Contained on pad	Crude	2	Crude and gravel scraped up, gravel washed, crude reinjected into system.	Multiple	Plug valve from well 2-70 leaked through grease fitting on valve. Qty 1 1/2 gallons.
10/16/89	89360128903	ARCO Alaska, Inc.	y	DS 2, Well 23, Contained on snow on pad	Crude	2	Super sucker used, snow taken to pad 3 for injection.	Subsurface Injection	During fill cleanout operation gas vented.
10/18/89	89360129102	BPXA	y	W 7, Contained on pad	Diesel	2	Absorbents used, sent to nsb incinerator.	Incinerated	Blown O-Ring on lubricator stack.
10/21/89	89360129401	BPXA	y	H Pad, well H 22, Contained on pad	Methanol	2	Snow and gravel picked up by bucket loader, placed in tank at a3/w2.	Interim Containment	Bleeding off well pressure into barrel (overspray).

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/29/89	89360930201	ARCO Alaska, Inc.	y	DS 7, spine road between Oxbow and drill site., Contained on gravel road.	Diesel	2	Loader removed gravel, gravel taken to nsb sowp.	Approved Landfill	Material leaked from tanker hose while enroute to site.
10/31/89	89360930401	ARCO Alaska, Inc.	y	DS L3 Well 28, Contained on pad	Methanol	2	Gravel and snow removed, taken to nsb landfill	Approved Landfill	During slickline work, bleed down wireline lubricator not fully drained.
11/8/89	89360131203	ARCO Alaska, Inc.	y	DS 5 Well 27, Rig location, Contained on pad	Drilling muds	2	Shovels used, material taken to nsb sowp.	Approved Landfill	Drilling fluids (water, diesel, mud) leaked beneath rig floor onto pad below.
11/20/89	89360132401	Camco	y	DS 18-8, Contained on pad	Heavy grease	2	Absorbents used, taken to arco drill site maintenance disposal.	Approved Landfill	765 liquid O Ring seal grease spilled when barrel overfilled.
12/1/89	89360133501	BPXA	y	H-14, Contained on pad	Hydraulic oil	2	Material shoveled into bags, incinerated.	Incinerated	Hose on loader ruptured.
12/10/89	89360934402	BPXA	y	Y Pad, Well 56, Contained on pad	Corrosion inhibitor	2	Loader removed contaminates, taken to t pad temp storage site.	Interim Containment	Fill connection frozen, caused venting when pressured up.
12/24/89	89360135801	ARCO Alaska, Inc.	y	DS 16 Well 15-16, Contained on pad	Hydraulic oil	2	Absorbents used, taken to nsb incinerator.	Incinerated	
1/7/90	90360200702	BPXA	y	W-3, Contained on pad.	Crude	2	To be scraped up with loader, taken to t-pad site.	Approved Landfill	No tundra or water affected. Total volume 50 gal. Actual oil content less than 2 gal.
1/18/90	90360101801	BPXA	y	CGF Pipeline Rd., None	Heavy grease	2	Shoveled up material, taken to nsb incinerator.	Incinerated	Packing grease (2 lbs) spilled due to seal failure on loader.
1/19/90	90360901901	ARCO Alaska, Inc.	m	East check point, Contained on pad	Methanol	2	Loader removed snow and material. melted and reused as freeze protection	Recycled	Camlock fitting not secure, fluid sloshed out top.
1/22/90	90360102201	BPXA	y	Spine Road, Lake Africa curve, Contained on pad	Transmission oil	2	Grader scraped area, contaminants to a3w2 melt tank for recovery.	Recycled	Xerox truck broke drive line which hit transmission, cracked it and allowed fluid to escape.
1/23/90	90360102301	BPXA	y	BOC fuel pumps, Contained on pad	Diesel	2	Loader removed snow, taken a3w2 for melting and recovery.	Recycled	Nozzle on pump leaking at handle.
1/24/90	90360102402	ARCO Alaska, Inc.	y	PBOC gravel pile ramp, Contained on pad	Hydraulic oil	2	Snow/gravel removed with loader. taken to nsb sowp.	Approved Landfill	Truck hydraulic hose blew.
1/27/90	90360102701	ARCO Alaska, Inc.	y	DS 11 Well 1, Contained on pad	Hydraulic oil	2	Shovels removed gravel, snow. taken to nsb sowp.	Approved Landfill	Compressor broke, vent discharged.
1/29/90	90360102111	BPXA	y	C Pad CGF, Contained on right of way surface	Hydraulic oil	2	Material shoveled into plastic bags, taken to nsb incinerator.	Incinerated	Amount spilled 20 oz. Fluid discharged from VSM drill unit.
1/31/90	90360903101	BPXA	y	GC2 skid 418, Contained on pad	Antifreeze	2	Snow removed with shovel, placed in a3w2 melt tank for recovery into gc1 ullage.	Recycled	Radiator hose broke on vehicle spilling 50% glycol/50% water.
2/19/90	90360105003	BPXA	y	BOC fuel pumps, Contained on pad	Gasoline	2	Contaminate shoveled into bags. bags to a3w2 melter for separation.	Not Given	Gasoline nozzle stuck in open position.
2/28/90	90360905901	ARCO Alaska, Inc.	y	C Pad, Snow and gravel pad	Methanol	2	Sorbents used, snow shoveled. sorbents in overpack drum at c pad, fluid melted, reused for freeze protect at ds 7.	Multiple	Hole in welded pipe on tanker manifold.
3/3/90	90360906201	ARCO Alaska, Inc.	y	DS 3 Manifold Bldg., Contained on pad	Corrosion inhibitor	2	Hand shovels removed material, absorbents used. material melted, reused at fs 1, sorbents incinerated.	Multiple	Faulty pipe connection on tank inside module leaked.
3/8/90	90360106702	H.C. Price	y	DS 2 Flowline on GHX 60 in. pipeline ice road, Snow and ice	Hydraulic oil	2	Shoveled up, bagged, taken to burnable dumpster.	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/16/90	90360107501	ARCO Alaska, Inc.	y	DS 17 Well 3, Contained on pad	Hydraulic oil	2	Hand shovels, absorbents used. taken to nsb incinerator.	Incinerated	Suspect ruptured hose or leak in line.
3/19/90	90360107802	H.C. Price	y	DS 2 Flowline next to 60 Inch GHX pipeline., Gravel pad	Hydraulic oil	2	Snow removed with shovels, bagged, taken to burnable dumpster.	Incinerated	Steel line on crane outrigger ruptured.
3/26/90	90360908502	BPXA	y	C Pad Access Road, Contained in snow on road	Antifreeze	2	Shovels removed snow, melted at a3w2, recycled.	Recycled	Fan belt failure caused radiator overflow.
4/6/90	90360109601	ARCO Alaska, Inc.	y	North end of Sag River Bridge, Bridge. Small qty. onto snow on river ice.	Hydraulic oil	2	Absorbents used, snow scraped up. pads to nsb incinerator, snow to pad 3 for melting and injection.	Multiple	Leak in tanker hose spilled as truck crossed bridge. Said initially verbally reported to DEC on 4-6, but no record found.
4/7/90	90360109702	ARCO Alaska, Inc.	y	Central Gas Facility, Contained on pad. 4x15 ft.	Other	2	Handshovels removed material and snow, taken to pad 3.	Subsurface Injection	Hot oil/lube oil/thermanol 59 vented through leaky valve, misted onto snow.
4/8/90	90360109802	ARCO Alaska, Inc.	y	DS 6, well 5, Contained on pad.	Hydraulic oil	2	Absorbents used, snow picked up. sorbents to nsb incinerator, snow to pad 3 injection.	Multiple	Oil leaked from cylinder of Nabors 2ES rig when moving.
4/14/90	90360910401	BPXA	m	Bullrail, Module 603, Contained on pad	Antifreeze	2	Shovel removed ice/snow, placed in melting bin.	Interim Containment	Most probable cause leak from vehicle radiator.
4/23/90	90360111301	ARCO Alaska, Inc.	y	DS 16, Snow on pad	Diesel	2	Absorbents used, shovels. absorbents taken to nsb burnable dumpster.	Incinerated	Fuel tank on heater leaked.
5/2/90	90360112201	H.C. Price	y	DS 9 Well 13 ARCO, Contained on ice on pad	Engine lube oil	2	Absorbents, shovels removed material, ice. bagged, taken to nsb burnable dumpster.	Incinerated	Leaked from crane.
5/11/90	90360113101	ARCO Alaska, Inc.	y	DS 14 Well 38, Gravel pad	Diesel	2	Aborbents used, taken to nsb incinerator.	Incinerated	
5/12/90	90360113201	ARCO Alaska, Inc.	y	Webster Lake Pumphouse, contained on pad	Diesel	2	Loader, truck used, gravel excavated. taken to pad 3 temp sowp.	Approved Landfill	Observed material on pad after thaw. Suspect spilled during refueling.
5/21/90	90360114102	ARCO Alaska, Inc.	y	CGF, Contained on pad	Engine lube oil	2	Absorbents used, shovels removed gravel. pads to nsb incin., gravel to pad 3.	Incineration/approved Landfill	Material misted out of blocked mister and ran down building.
5/23/90	90360114301	HB and R	y	DS L1, Contained on pad	Crude	2	Gravel removed, taken to nsb dumpster for incin. replaced with dry gravel.	Incinerated	50% crude/50% water.
5/24/90	90360114401	BPXA	y	Next to Tool Service, Contained on pad	Diesel	2	Scalped gravel, placed in holding area.	Interim Containment	After fuel tank filled, parked on incline and fuel leaked out of port.
5/26/90	90360114601	BPXA	y	Pad D Well 21, Contained on pad	Hydraulic oil	2	Absorbents to wipe down equipment, soak up fluid. taken to nsb incin.	Incinerated	Injector hose fitting. Wind blew oil. Contractor Arctic Coiled Tubing.
5/26/90	90360114603	BPXA	y	BOC, Contained on pad	Diesel	2	Loader, absorbents used. sorbents to nsb incin., gravel to a3w2 to be rinsed.	Multiple	Leak around drain plug of fuel tank.
5/28/90	90360114807	Chem Link Petroleum	m	ARCO 100% Pad, Contained on pad	Crude	2	Shoveled up gravel, put in drums. drums stored on pad pending nsb haz waste disposal site.	Interim Containment	Faulty high level switch.
6/2/90	90360115302	ARCO Alaska, Inc.	y	DS 1 Well 15, Contained on pad	Crude	2	Removed gravel, taken to pad 3.	Approved Landfill	
6/2/90	90360915302	ARCO Alaska, Inc.	y	DS 13 Manifold Bldg, Contained on pad	Corrosion inhibitor	2	Absorbents used, gravel removed, taken to pad 3.	Approved Landfill	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/8/90	90360115901	ARCO Alaska, Inc.	y	COTU, None, contained on gravel pad.	Crude	2	Absorbents used.	Incinerated	Faulty line while inspecting unit.
6/14/90	90360116501	ARCO Alaska, Inc.	y	DS 5 Well 4, Contained on pad	Hydraulic oil	2	Absorbents used, taken to nsb incinerator. gravel used to backfill in wellhead cellar.	Multiple	Rock punctured oil filter.
6/19/90	90360217001	ARCO Alaska, Inc.	y	DS 5 to FS 2 Access Road, Bermed area of tundra	Seawater	2	Vac truck removed material, flushed with fresh water. material injected pad 3.	Subsurface Injection	Seawater with 250 ppm gluteraldehyde spilled while hydrotesting line. New pipe failed. 20 conductivity readings taken show tundra not affected.
6/24/90	90360117501	BPXA	y	X Pad West End, vegetation	Diesel	2	Gravel removed by backhoe, taken to a3w2 rinse tank.	Approved Landfill	Diesel found off pad during gravel removal. Vegetation in area already damaged by gravel placement, marked for rehab.
6/29/90	90360118002	ARCO Alaska, Inc.	y	DS 2, Gravel Pad	Diesel	2	Sorbents were used.	Incinerated	Cause: Tank leak on maintenance truck.
7/13/90	90360119401	ARCO Alaska, Inc.	y	DS 1 Manifold Bldg., Contained on pad	Engine lube oil	2	Loader and bucket removed gravel. taken to pad 3.	Approved Landfill	
7/19/90	90360120001	ARCO Alaska, Inc.	y	DS 9, Gravel	Diesel	2	Gravel shoveled, takento pad 3 sw disposal.	Approved Landfill	Pack off rubber hydraulics leak.
7/20/90	90360120102	Camco	y	DS 9 Well 5, Gravel pad	Diesel	2	Absorbents used, gravel shovelled up, taken to sw pit.	Approved Landfill	
7/21/90	90360120201	ARCO Alaska, Inc.	y	WGI, Contained on pad	Other	2	Gravel removed, taken to pad 3.	Approved Landfill	Stain observed on pad. Unknown hydrocarbon.
7/23/90	90360920402	ARCO Alaska, Inc.	y	DS 3, Contained on pad	Antifreeze	2	Supersucker used, gravel taken to pad 3.	Approved Landfill	Leak in radiator.
7/25/90	90360120602	Halliburton Logging Services	y	DS 12, Contained on pad	Diesel	2	Arco bladed it back into gravel pad.	Other	Broken grease head.
8/1/90	90360121303	ARCO Alaska, Inc.	y	C Pad, Contained on pad	Unknown	2	Hand shovels removed gravel, stored at c pad for tests. taken to pad 3 swdp.	Approved Landfill	Unknown hydorcarbon spilled, suspect drum tipped during move.
8/5/90	90360121702	BPXA	y	G Pad, Contained on pad	Hydraulic oil	2	Loader removed gravel, took to pad 3.	Approved Landfill	
8/9/90	90360122102	ARCO Alaska, Inc.	m	Not given, Contained on pad	Crude	2	No further cleanup plan. no disposal given.	Unknown	
8/19/90	90360923101	BPXA	y	GC 1, S. end pad, Contained on pad	Antifreeze	2	Gravel shoveled into bags, taken to arco pad 3.	Approved Landfill	Truck picked up dumpster and glycol spilled out. Unknown party placed glycol there.
8/23/90	90360123501	Arctic Coiled Tubing	y	DS 14 Well 36, Gravel	Hydraulic oil	2	Absorbents used, gravel removed, taken to nsb dumpster.	Approved Landfill	
9/17/90	90360126001	Alaska Petroleum Contractors	y	DS 9 Well 1, Gravel pad	Hydraulic oil	2	Absorbents used, gravel removed by loader. sorbents to nsb incin., gravel to pad 3 sw pit.	Incineration/approved Landfill	Pump split.
9/25/90	90360126805	ARCO Alaska, Inc.	y	DS 18 Manifold Bldg, Contained in gravel under bldg	Other	2	Shovels used, gravel taken to pad 3.	Approved Landfill	70% fresh water, 30% crude spilled when broken line allowed material to seep from drain where it was sprayed by the wind.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/26/90	90360926901	Conoco	y	B Pad Road, Gravel road	Antifreeze	2	Scooped gravel, put in temp berm.	Interim Containment	Radiator casing failed.
10/3/90	90360127601	Alaska Petroleum Contractors	y	DS 7 Well 30, 5 x 15 on gravel pad	Hydraulic oil	2	Absorbents, loader used. gravel put in salvage drum, sorbents in drum for testing.	Multiple	
10/7/90	90360128001	ARCO Alaska, Inc.	y	DS 11, Well 28, Contained on pad	Crude	2	Gravel, snow removed, taken to pad 3.	Approved Landfill	50/50 diesel, crude spilled during wireline work.
10/8/90	90360128102	ARCO Alaska, Inc.	y	Hot Water Plant, contained on pad	Diesel	2	Loager removed gravel, being held pending lab results.	Interim Containment	During fill, auto shut off failed.
10/8/90	90360128103	BPXA	y	C Pad Well 35, Gravel pad	Crude	2	Gravel picked, taken to arco pad 3.	Approved Landfill	Leak from flange.
10/11/90	90360128401	Conoco	y	L Pad L-3 Well, Gravel Pad	Diesel	2	Absorbents used, gravel removed. gravel to temp storage berm, pads to burnable dumpster.	Multiple	Brine/diesel (total 12 gal) spilled when fluid splashed from rig to cellar. 80% recovered.
10/13/90	90360928601	BPXA	y	CC 1, Gravel pad	Antifreeze	2	Gravel/snow removed, bagged, taken to a3w2.	Approved Landfill	Patch of antifreeze found during inspection.
10/17/90	90360229001	ARCO Alaska, Inc.	y	DS 4 Well 28, Contained on pad	Seawater	2	Shoveled up, melted for reuse. gravel cleaned and put back on pad.	Recycled	Slow leak from lateral valve.
10/21/90	90360129401	ARCO Alaska, Inc.	y	DS 14 Well 12, Snow, ice on gravel	Crude	2	Snow/ice removed, melted, injected pad 3.	Subsurface Injection	Loss of coiled tubing tools in well allowed tubing to be pulled out and well vented.
10/22/90	90360129505	ARCO Alaska, Inc.	y	DS 15 Well 16, Contained on snow	Crude	2	Absorbents used, hand shovels. absorbents incinerated nsb.	Incinerated	Plug pulled from well spilling 95% seawater/hydro oxyl ethyl cellulose (thickener) and 5% crude.
11/5/90	90360130902	ARCO Alaska, Inc.	y	FS 1, Gravel pad	Crude	2	Loader and truck removed snow. snow melted, taken to pad 3.	Approved Landfill	Lock nut failed due to lubricator pressure.
11/6/90	90360931001	BPXA	y	BOC annex 1, Contained in snow and gravel	Antifreeze	2	Snow, gravel removed by loader, taken to a3w2 melt tank for processing.	Approved Landfill	VECO contractor.
11/7/90	90360131101	ARCO Alaska, Inc.	y	SIP, Snow/gravel	Engine lube oil	2	Hand shovels removed ice/snow/gravel, melted, recycled at fs 1.	Recycled	Loss of material from generator.
11/12/90	90360931601	Alaska Petroleum Contractors	y	Spine Road 1/4 mi E of D Pad, Snow and ice	Antifreeze	2	Shoveled into bags, put in nsb dumpster.	Approved Landfill	Bus overheated.
11/13/90	90360131703	ARCO Alaska, Inc.	y	DS 4 Manifold Bldg., Contained on snow/ice	Crude	2	Vac truck, absorbents, gravel removed. gravel to pad 3, fluid injected pad 3, pads incinerated nsb.	Multiple	90% gelled water, 10% crude for total volume 20 gal.
11/18/90	90360132201	Prudhoe Bay Commercial Center	y	ARCO COTU, 3 ft diam. snow	Diesel	2	Absorbents used, shovels. burnable dumpster.	Incinerated	
11/20/90	90360932401	Dowell Schlumberger	m	DS Facility at Liquid bull rail, PB, 2 x 2 area	Other	2	Absorbents used, shovels. burnable dumpster.	Incinerated	Product ambitrol.
12/9/90	90360134302	ARCO Alaska, Inc.	y	DS L-5 Well 12, On Snow	Diesel	2	Hand shovels, loader. melted, taken to pad 3 injection.	Subsurface Injection	Stuffing box packing did not seal, material sprayed out of annulus.
12/11/90	90360934501	BPXA	y	BOC, Contained on pad	Antifreeze	2	Loader removed material, taken to a3w2.	Interim Containment	
12/14/90	90360934801	ARCO Alaska, Inc.	y	DS 13, Contained on snow on pad	Methanol	2	Scraped up. melted, reused.	Recycled	60/40 methanol, water.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/3/91	91360900301	ARCO Alaska, Inc.	y	DS 3 Parking area, Contained on pad	Antifreeze	2	Loader removed snow, taken to pad 3 swp.	Approved Landfill	
1/6/91	91360900601	BPXA	y	Y Pad Skid 56, Contained on pad	Corrosion inhibitor	2	Snow/gravel removed with shovels. taken to t pad pit.	Interim Containment	Leaky fill point at dry lock fitting.
1/8/91	91360100801	ARCO Alaska, Inc.	y	Heavy Equip. storage shed, Contained on snow on pad	Hydraulic oil	2	Snow removed to pad 3 waste injection.	Subsurface Injection	
1/18/91	91360201802	Atlas Wireline	m	ARCO LCI 4, Beside/in front of wells	Other	2	Bucket, forklift used. material taken to aws shop.	Interim Containment	Specks on ground from dripping off GIT line.
2/5/91	91360103601	ARCO Alaska, Inc.	y	Access Road between FS 3 and DS 6, Contained on road	Hydraulic oil	2	Shovels used. material bagged, injected at pad 3.	Subsurface Injection	O ring failure.
2/20/91	91360105101	ARCO Alaska, Inc.	y	DS 2 Well 2, Snow on gravel	Diesel	2	Hand shovels removed material. pad 3 injection	Subsurface Injection	Suction valve, leaking fitting.
3/3/91	91360106201	VECO	m	ARCO Rock Flour #1 Doyon Rig #14, Not given	Diesel	2	Absorbents used, snow/ice scraped up. snow melted, diesel absorbed, bagged, put in dumpster. water reused.	Multiple	
3/4/91	91360106301	BPXA	y	F Pad Skid 59, Contained on pad	Crude	2	Loader removed material, took to t pad.	Interim Containment	When line blown clear, oil discharged.
3/5/91	91360106402	BPXA	m	Survey Team Figures, No waterways	Transmission oil	2	Snow removed, incinerated nsb.	Incinerated	
3/9/91	91360106801	Conoco	y	L Pad road 3/10 mi from L Pad, 3-4 sq ft road	Diesel	2	Absorbents used, scooped up next day. put in d pad temp storage.	Interim Containment	Auto nozzle failure. Will not be using auto shut off anymore.
3/10/91	91360906901	BPXA	y	Point McIntyre, Contained on pad, lined berm	Antifreeze	2	Material shoveled and scraped up, taken to a3w2 melt tank.	Interim Containment	Loader punctured barrel of glycol in lined berm covered by snow. Most contaminants confined to lined berm.
3/15/91	91360107402	Peak Oilfield Services	y	H Pad, 8 x 8 snow/ice	Diesel	2	Loader removed snow/ice, put in temp storage berm d pad.	Interim Containment	Peak working for Conoco.
3/16/91	91360107501	ARCO Alaska, Inc.	y	DS 1 Well 4, Contained on snow on pad	Crude	2	Shovels, absorbents used. absorbents to nsb incin., snow to pad 3 sw pit.	Incineration/approved Landfill	Well lost pressure.
3/17/91	91360107605	Camco Wireline	y	DS 16 Well 8, Contained on pad	Diesel	2	Removed material, put in special dumpster.	Interim Containment	Leaking stuffing box on wireline lubricator.
3/19/91	91360107803	BPXA	y	Q Pad, Snow on pad	Crude	2	Snow removed by loader, taken to t pad lined pit.	Interim Containment	Crude spots discovered near well houses during inspection.
3/25/91	91360108404	ARCO Alaska, Inc.	y	DS 1 Well 16, 2 x 10 snow on gravel	Crude	2	Loader used. material melted, injected pad 3.	Subsurface Injection	Hose sprayed arctic pack (crude or diesel) from slop trailer due to excess pressure.
3/27/91	91360108601	Conoco	y	L Pad, 2 sq ft snow/ice/gravel	Crude	2	Absorbents, shovels removed snow/ice/gravel. absorbents to burnable dumpster. snow/ice/gravel to temp storage d pad.	Multiple	Cracked nipple leaked on low line.
3/29/91	91360908801	ARCO Alaska, Inc.	y	DS 16 manifold bldg, Snow on pad	Corrosion inhibitor	2	Hand shovels removed snow, gravel. bagged, taken to pad 3 sw pit.	Approved Landfill	Flange leak on chemical line spilled NALCO 3554.
4/4/91	91360909401	BPXA	m	Various Survey sites, Unknown	Antifreeze	2	As much snow was removed as practical. taken to nsb incinerator.	Incinerated	Equipment leaks.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/9/91	91360910001	BPXA	m	Various Survey sites, Unknown	Antifreeze	2	As much contaminated snow removed as possible. incinerated nsb.	Incinerated	Equipment leaks.
4/16/91	91360110602	BPXA	m	Various survey sites, Water-lake, river or stream	Diesel	2	None done. no disposal.	Other	Equipment leaks. 1.5 gal diesel to water, remaining .5 gal various oils not to water.
4/17/91	91360110701	ARCO Alaska, Inc.	y	DS 16, Snow on pad	Hydraulic oil	2	Absorbents used, put in nsb burnable dumpster.	Incinerated	
4/19/91	91360110903	BPXA	y	GC3 Chicken Lake near pipeline, Contained on pad	Hydraulic oil	2	Loader removed material, took to a3w2 melt tank.	Interim Containment	
4/20/91	91360111002	ARCO Alaska, Inc.	y	OWIF, Snow on pad	Diesel	2	Snow shoveled into bucket, recycled.	Recycled	
4/21/91	91360111101	ARCO Alaska, Inc.	y	DS 1 outside control room, Contained on pad	Engine lube oil	2	Shoveled snow/oil, recycled at ds 1 sump.	Recycled	
4/23/91	91360111301	Alaska Petroleum Contractors	m	East guard shack-ARCO side, 3 sq ft snow/ice on road	Crude	2	Snow removed, taken to melt tank, then to pad 3 injection.	Subsurface Injection	Front hatch came open, liquid sloshed out.
4/26/91	91360111602	ARCO Alaska, Inc.	y	Pad 3J Well 3, Gravel pad	Crude	2	Shovels removed material, bagged, recyled 2z.	Recycled	Lubricator leaking near well head.
4/26/91	91360111603	ARCO Alaska, Inc.	y	H Pad Well 4, Gravel pad	Crude	2	Snow shoveled into bags, melted, recycled 2z.	Recycled	Lubricator stuffing box packing became worn, sprayed crude.
5/6/91	91360112603	ARCO Alaska, Inc.	y	DS 5 Well 14, 2 sq ft snow on pad	Crude	2	Absorbents, shovels used. absorbents washed, fluids injected. gravel to sw pit.	Multiple	Crude frozen during winter wellwork thawed and dripped.
5/13/91	91360113302	Peak Oilfield Services	y	I Pad, 4 sq ft gravel	Diesel	2	Gravel removed, stored at cfp for final disposal.	Interim Containment	Residual in pipe section drained out.
5/17/91	91360113704	Camco Wireline	y	DS 9 Well 18, No tundra or soil	Crude	2	Absorbents used, vac truck. retainer wall built around spill. pads in containers at ds maint., vac truck emptied pad 3.	Multiple	
5/17/91	91360913701	Halliburton	y	DS 12 Well 28, Gravel	Other	2	Loader, shovels used. neutralized and injected.	Subsurface Injection	Latex water spilled.
5/17/91	91360913703	Camco Wireline	y	DS 9 Well 18, No tundra or soil	Methanol	2	Absorbents used, vac truck. retainer wall built around spill. pads in containers at ds maint., vac truck emptied pad 3.	Multiple	
5/24/91	91360114404	BPXA	y	GC3 near injection wells, Contained on pad	Diesel	2	Absorbents, shovels on small areas. loader, vac truck used for pooled areas, gravel. sorbents to nsb incin., gravel to t pad pit for recovery.	Multiple	Winter work in area revealed no contamination til thaw.
6/3/91	91360115401	ARCO Alaska, Inc.	y	DS 3, Gravel pad	Hydraulic oil	2	Absorbents used, shovels. taken to nsb incin.	Incinerated	Leaking filter.
6/5/91	91360115601	BPXA	y	J Pad Skid 54, Contained on pad	Crude	2	Absorbents used, gravel removed. sorbents to nsb incin., gravel to arco pad 3 sowp.	Multiple	Vibration of flowline caused valve to loosen.
6/6/91	91360115701	BPXA	y	BOC fuel pumps, Contained on pad	Gasoline	2	Shovles used, gravel bagged, taken to a3/w2 tank.	Interim Containment	
6/6/91	91360115703	BPXA	y	GC2 Skid 407, Contained on pad	Crude	2	Shovels removed gravel, takento arco's pad 3 swp.	Approved Landfill	Damage to dike timbers caused tear in liner allowed crude & water to escape.
6/9/91	91360116009	ARCO Alaska, Inc.	y	C Pad, Snow/ice off pad	Engine lube oil	2	Absorbents, vac truck used. sorbents to nsb incin., liquid injected pad 3.	Multiple	Auger crankcase leaked.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/9/91	91360916001	ARCO Alaska, Inc.	y	Hot Water Plant, Contained on pad	Antifreeze	2	Loader removed gravel, took to pad 3.	Approved Landfill	
6/16/91	91360216701	ARCO Alaska, Inc.	y	Point McIntyre 10, west dock, Contained on pad	Other	2	Super sucker removed fluids from gravel. fluid to l1 reserve pit.	Approved Landfill	Vac truck overfilled, spilling 98% water, 2% cement.
6/17/91	91360116801	BPXA	y	P Pad Access Rd., 10 x 10 ft tundra	Diesel	2	Sorbents used on sheen. contam. vegetation removed, tundra burned to remove residual diesel. sorbents, grass to nsb incin.	Incinerated	Stained vegetation, light sheen on puddles discovered. Area to be monitored, fertilized and seeded.
6/18/91	91360116902	ARCO Alaska, Inc.	y	FS 3, 10 x 15 gravel	Diesel	2	Loader removed gravel, took to pad 3.	Approved Landfill	Suspect faulty valve.
6/25/91	91360117601	ARCO Alaska, Inc.	y	DS 2A, Gravel pad	Crude	2	Shovels removed gravel, placed in sandjet tank. liquids to cpf 1 for injection, and 2z recycle. solids to 1h.	Multiple	
6/26/91	91360117702	ARCO Alaska, Inc.	y	DS L5 Well 15, Gravel Pad	Diesel	2	Loader removed gravel, taken to pad 3 sowp.	Approved Landfill	Fitting on compressor broke.
7/7/91	91360118801	BPXA	y	BOC behind FOC, Contained on pad	Hydraulic oil	2	Gravel removed, bagged, taken to a3w1 snow melter.	Interim Containment	
7/18/91	91360119903	ARCO Alaska, Inc.	y	MCC Pad, north, Contained on pad	Hydraulic oil	2	Absorbents used, shovels removed gravel. gravel to pad 3 sowp, pads to nsb incin.	Incineration/approved Landfill	
7/26/91	91360120701	ARCO Alaska, Inc.	y	DS Maintenance Shop near south hangar, Gravel	Hydraulic oil	2	Hand shovels removed gravel, took to pad 3 swp.	Approved Landfill	
8/4/91	91730121603	BPXA	y	F Pad Mod 95, Contained on pad	Diesel	2	Gravel removed with shovels, bagged, taken to t pad lined pit.	Approved Landfill	Spill found on pad.
8/14/91	91730122602	ARCO Alaska, Inc.	y	FS 2, Gravel	Engine lube oil	2	1 cu yd. gravel scooped up, taken to pad 3 sowp.	Approved Landfill	Oil compressor leaked 50/50 lube and hydraulic.
8/21/91	91730123302	BPXA	y	X Pad, S. of Mod 56, Contained on pad	Hydraulic oil	2	Shovels removed gravel. gravel taken to t pad owp.	Approved Landfill	Spots of hydraulic found during inspection.
8/22/91	91730123403	BPXA	y	Y Pad, n. of Mod 55, Contained on pad	Hydraulic oil	2	Gravel shoveled into bags, taken to t pad disposal pit.	Approved Landfill	Spots of fluid discovered during routine inspection.
8/23/91	91730123501	ARCO Alaska, Inc.	y	DS 6 Well 15, Gravel pad	Diesel	2	2 yds. gravel removed by loader, taken to pad 3 sowp.	Approved Landfill	
8/29/91	91730224101	ARCO Alaska, Inc.	y	DS 9, Gravel pad	Seawater	2	Handshovels removed gravel, took to pad 3.	Approved Landfill	Valve left open on vent.
8/30/91	91730124201	ARCO Alaska, Inc.	y	DS 4 Well 18, 1 sq yd gravel	Crude	2	Shovels removed gravel. taken to pad 3.	Approved Landfill	Grease head fitting leaked.
9/6/91	91730124901	BPXA	y	Near U Pad LDF EWW 30", 3 x 10 tundra	Crude	2	Sorbents used, taken to nsb incin.	Incinerated	Corrosion leak allowed crude to seep from insulation joint onto tundra under LDF. Crude confined to puddle at pad and access rd intersection.
9/6/91	91730124902	ARCO Alaska, Inc.	y	FS 3 Fuel loading area, Gravel pad	Diesel	2	Handshovels removed gravel, pads used. gravel to pad 3, sorbents to nsb incin.	Incineration/approved Landfill	
9/6/91	91730124903	ARCO Alaska, Inc.	y	DS 12, Gravel pad	Diesel	2	Shovels removed gravel, took to pad 3.	Approved Landfill	
9/7/91	91730125001	Canadian Fracmaster	y	DS L5 Well 31, Gravel	Diesel	2	Absorbents, shovels used. drummed, sent to pad 3 sowp.	Approved Landfill	5 bags gravel removed. Connection failed during pressure testing.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/12/91	91730125502	Unknown	m	Exxon North Slope Operating Center, 3 x 4 Gravel	Diesel	2	Gravel removed, replaced with clean by unknown person(s). disposal unknown.	Unknown	Possibly thermal expansion caused pickup fuel tank to leak.
9/15/91	91730125802	BPXA	y	F Pad Well 10, Contained on pad	Diesel	2	Gravel shoveled into bags, taken to arco pad 3.	Approved Landfill	Found during routine inspection.
9/28/91	91730927101	ARCO Alaska, Inc.	y	FS 3 Mod 4926, 2 x 2 gravel pad	Antifreeze	2	Absorbents used, shovels removed gravel. gravel taken to pad 3, sorbents to nsb incin.	Incineration/approved Landfill	Hose on welding machine.
9/30/91	91730127301	Alaska Petroleum Contractors	y	DS 5 Well 28, 6 x 12 gravel	Diesel	2	Loader removed gravel, took to pad 3.	Approved Landfill	Compressor air blew liquid out of slop tank.
10/11/91	91730128402	ARCO Alaska, Inc.	y	DS 2, Gravel pad	Hydraulic oil	2	Shovels removed snow, recyled at fs 1.	Recycled	Hose on pump truck leaked.
10/11/91	91730128403	ARCO Alaska, Inc.	y	FS 2 Mod 4915, Gravel pad	Transmission oil	2	Snow/gravel removed. taken to pad 3 sowp.	Approved Landfill	Relief valve on compressor.
10/11/91	91730128404	BPXA	y	C Pad Well 1, Contained on pad	Crude	2	Shovels, loader used. taken to t pad lined pit.	Approved Landfill	Annulus bled down too fast.
10/11/91	91730928401	BPXA	y	GC1 Skid 21, Contained on pad	Antifreeze	2	Shovels removed contaminants, hauled to t pad lined pit.	Approved Landfill	Faulty sump switch.
10/21/91	91730129402	BPXA	y	P.E. Pad, Contained in snow on pad	Hydraulic oil	2	Snow shoveled, bagged, melted at a3w2.	Interim Containment	
10/30/91	91730130301	ARCO Alaska, Inc.	y	DS 1 Well 1, Snow covered pad	Diesel	2	Snow removed by loader, taken to melter for reuse.	Recycled	On recorder.
11/2/91	91730130602	ARCO Alaska, Inc.	y	DS 16 Well 23, Snow on gravel	Crude	2	Gravel removed, recycled at fs 1.	Recycled	Recorder.
11/15/91	91730131901	BPXA	y	GC 2 Skid 1, Contained on pad	Crude	2	Absorbents used, snow/gravel scraped up with shovels, bagged. sorbents to nsb incin., snow/gravel to a3w2.	Multiple	Overpressured line during bleed-down.
11/15/91	91730931901	ARCO Alaska, Inc.	y	C Pad, 1 x 3 snow on gravel	Corrosion inhibitor	2	Absorbents used, shoveled into drums. disposal to be determined.	Unknown	Treater truck overfilled.
11/16/91	91730132002	BPXA	y	J Pad Skid 54, contained on pad	Engine lube oil	2	Snow/gravel removed by shovels. taken to a3w2.	Approved Landfill	
11/23/91	91730132701	ARCO Alaska, Inc.	y	DS 7 Well 3, No damage	Diesel	2	Absorbents used, snow removed. melted and recycled fs 1.	Recycled	On recorder.
11/27/91	91730933101	Alaska Petroleum Contractors	y	ARCO Hot Water Plant, gravel pad	Methanol	2	Shoveled into buckets, dumped into another tanker of methanol/water. reused at ds 9 well 43.	Recycled	Crack in tanker.
12/7/91	91730934101	Halliburton Services	y	DS 6 Well 23, 30' E. of well house,	Other	2	Chipped up ice and put in arco slop tank.	Interim Containment	1% KCL (potassium chloride).
12/9/91	91730134303	Alaska Petroleum Contractors	y	DS 9 Well 44, 2 x 4	Crude	2	Hand shovels and half drum used. melted and taken to fs 1 slop oil.	Interim Containment	Valve handle installed in wrong position.
12/17/91	91730135101	BPXA	y	W Pad Well 16, Snow on pad	Crude	2	Loader removed snow. taken to t pad.	Approved Landfill	Oil leaked from fittings when hoses disconnected.
1/19/92	92730901901	BPXA	y	E Pad Well 29, Contained on pad	Antifreeze	2	Contaminants removed, bagged, placed in burnable dumpster.	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/20/92	92730102001	Colville	m	Colville Fuel Station, 50 sq ft packed snow	Diesel	2	Removed snow, melted, reused.	Recycled	
1/27/92	92730102701	Unocal	m	1 mi E of 70N 09' 07.95"N 147 28' 07.69" W, ice road	Engine lube oil	2	Mopped up, chipped ice and put in drums.	Interim Containment	Machinery left idling, blew engine.
2/10/92	92730104102	ARCO Alaska Inc.	y	DS 14, 10 sq ft snow on gravel	Crude	2	Material scraped up, recycled fs 1.	Recycled	O ring failure.
2/19/92	92730105001	BPXA	m	Remote location, Unknown	Engine lube oil	2	Snow removed. disposal not given.	Not Given	1 cup motor oil, 1 gal ATF leaked by equipment.
2/23/92	92730905401	BPXA	y	GC1 474 piperack, Contained on pad	Antifreeze	2	Loader removed material, taken to a3/w2 melt tank.	Interim Containment	Heat trace line broke.
2/25/92	92730105601	Halliburton Logging	y	DS 3 Well 8, 10 sq ft snow on pad	Heavy grease	2	Shovels used. material put in containeer, taken to shop, run through separator, burned in waste oil heater.	Incinerated	Wire line grease leaked from grease head.
2/29/92	92730906001	ARCO Alaska Inc.	y	DS 14 Well 37, Gravel	Antifreeze	2	Method not given. pad 3 waste disposal pit.	Approved Landfill	
3/1/92	92730106202	BPXA	m	Remote Location, Unknown	Transmission oil	2	Contaminated snow removed, taken to nsb incinerator.	Incinerated	
3/4/92	92730106501	BPXA	y	Cold Storage Pad VMS, Contained on pad	Engine lube oil	2	Loader removed material, put in a3w2 melt tank.	Interim Containment	
3/7/92	92730106801	Alaska Petroleum Contractors	y	FS 1 slop oil tank, Snow/ice on pad	Crude	2	Snow scraped, put in snow melt tank, will be sent to fs 1 slop oil.	Interim Containment	Rear sump cracked, sloshed crude out of tank.
3/14/92	92730107401	BPXA	m	Remote Location, Unknown	Transmission oil	2	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/28/92	92730108801	ARCO Alaska Inc.	y	DS 14 Well 22, 30 x 40	Crude	2	Shovels used, taken to pad 3.	Approved Landfill	Crude blown over tank during bleed down.
3/28/92	92730108802	BPXA	m	Remote Location, tundra	Transmission oil	2	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/31/92	92730909101	BPXA	y	GC3 Skid 12, Pad	Antifreeze	2	Loader removed snow, taken to a3w2 melt tank.	Interim Containment	Diluge dump caused water to flow into skid drain. Glycol in seal then overflowed onto pad.
4/7/92	92730109801	BPXA	y	GC2 near N pad access, No damage	Transmission oil	2	Shovels removed snow, taken to a3w2 for recovery.	Recycled	
4/9/92	92730910101	Alaska Petroleum Contractors	y	ARCO's CCP Mod 4976, 3 x 3 gravel pad	Antifreeze	2	Shoveled up snow, gravel, used rags. bagged, taken to nsb incin.	Incinerated	
4/20/92	92730111204	ARCO Alaska Inc.	y	DS 14, Snow on gravel	Engine lube oil	2	Shovels used. drummed. disposal pending.	Interim Containment	
4/26/92	92730111803	BPXA	y	Pad B well 25, Contained on pad	Hydraulic oil	2	Loader removed material, to a3w2 melter.	Interim Containment	
4/27/92	92730111901	BPXA	m	Remote location, Unknown	Engine lube oil	2	Contaminated snow removed, backhauled to nsb incin.	Incinerated	
4/27/92	92730911901	BPXA	m	Remote location, Unknown	Antifreeze	2	Contaminated snow removed, backhauled to nsb incin.	Incinerated	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/2/95	95399918301	ARCO ALASKA INC.	y	East Prudhoe Bay, PBOC,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 09-29-95		Equipment Failure
7/18/95	95399919903	ARCO	y	East Prudhoe Bay, DS 16,	Corrosion Inhibitor	2	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
8/2/95	95399921401	ARCO ALASKA INC.	y	East Prudhoe Bay, DS 11,	Crude	2	Took Report, Case Closed 01-00-00		Seal Failure
8/5/95	95399921701	ARCO ALASKA INC.	y	East Prudhoe Bay, CGF,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure
8/7/95	95399921903	VECO	y	East Prudhoe Bay, CFG,	Other	2	Took Report, Case Closed 01-00-00		Leak
8/9/95	95399922102	ARCO ALASKA INC.	y	East Prudhoe Bay, DS1-29,	Crude	2	Took Report, Case Closed 01-00-00		Leak
9/14/95	95399925701	BPXA	y	West Prudhoe Bay, X PAD WELL 12,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Valve Failure
9/18/95	95399926101	BPXA	y	West Prudhoe Bay, S PAD,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Leak
9/19/95	95399926201	BPXA	y	West Prudhoe Bay, GC 1 SKID 30,	Emulsion Breaker	2	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
9/29/95	95399927202	BPXA	y	West Prudhoe Bay, Y PAD,	Drilling Muds	2	Took Report, Case Closed 01-00-00		Unknown
10/4/95	95399927701	ARCO ALASKA INC.	ym	East Prudhoe Bay, WEST DOCK ROAD,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Other
10/25/95	95399929803	BPXA	y	West Prudhoe Bay, B22,	Crude	2	Took Report, Case Closed 01-00-00		Corrosion
11/11/95	95399931501	BPXA	y	West Prudhoe Bay, 241 PIPERACK,	Other	2	Took Report, Case Closed 01-00-00		Valve Failure
11/12/95	95399931602	ARCO	y	East Prudhoe Bay, MCC,	Gasoline	2	Took Report, Case Closed 01-00-00		Unknown
11/26/95	95399933002	BPXA	y	West North Slope, GC1 SKID 20,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 01-00-00		Valve Failure
11/27/95	95399933101	ARCO	y	East Prudhoe Bay, L4,	Produced Water	2	Took Report, Case Closed 01-00-00		Leak
12/4/95	95399933801	CROWLEY MARINE SERVICES	y	DEADHORSE, WEST DOCK,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 12-06-95		Leak
1/8/96	96399900801	BPXA	ym	East Prudhoe Bay, POINT McINTYRE 2,	Gasoline	2	Took Report, Case Closed 01-00-00		Puncture
1/16/96	96399901601	ARCO	y	POINT MCINTYRE, PM 2,	Other	2	Took Report, Case Closed 01-00-00		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/1/96	96399903201	BPXA	y	West Prudhoe Bay, GC 1,	Diesel	2	Took Report, Case Closed 01-00-00		Collision/Allision
2/4/96	96399903503	ARCO	y	East Prudhoe Bay, DS 11,	Diesel	2	Took Report, Case Closed 01-00-00		Line Failure
2/4/96	96399903505	STEWART ENTERPRISES	y	East Prudhoe Bay, ARCO MCC PAD,	Engine Lube Oil	2	Took Report, Case Closed 01-00-00		Other
2/8/96	96399903901	ARCO	y	East Prudhoe Bay, DS 12,	Diesel	2	Took Report, Case Closed 01-00-00		Unknown
2/20/96	96399905102	ARCO	ym	East Prudhoe Bay, COMM MODULE,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Seal Failure
2/20/96	96399905103	ARCO	y	East Prudhoe Bay, FS 2,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Overfill
2/22/96	96399905301	ARCO	y	East Prudhoe Bay. DS 2,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Equipment Failure
2/25/96	96399905601	BPXA	y	West Prudhoe Bay, M PAD,	Corrosion Inhibitor	2	Took Report, Final Report 01-00-00		Equipment Failure
2/26/96	96399905701	BPXA	y	West Prudhoe Bay, M PAD WELL 25,	Corrosion Inhibitor	2	Took Report, Case Closed 01-00-00		Valve Failure
3/18/96	96399907801	BPXA	y	West Prudhoe Bay, GC 3 SKID 450,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 01-00-00		Corrosion
4/16/96	96399910701	BPXA	y	Well Pad Y,	Crude	2	Took Report, Case Closed 05-02-96		Leak
5/3/96	96399912401	ARCO	y	East Prudhoe Bay, FS 1 DS 1,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Equipment Failure
5/3/96	96399912403	ARCO	y	East Prudhoe Bay DS 1,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Equipment Failure
5/4/96	96399912501	BPXA	y	West Prudhoe Bay, W PAD,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure
5/10/96	96399913101	ARCO	y	East Prudhoe Bay, CGF,	Natural Gas	2	Took Report, Case Closed 01-00-00		Other
6/20/96	96399917201	VECO	y	East Prudhoe Bay, DS 5 WELL 3,	Diesel	2	Took Report, Case Closed 01-00-00		Equipment Failure
7/7/96	96399918901	ARCO	y	East Prudhoe Bay, DS 18,	Crude	2	Took Report, Case Closed 01-00-00		Seal Failure
7/16/96	96399919802	ARCO	y	East Prudhoe Bay, PBOC,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/16/96	96399919803	BPXA	y	SIP,	Other	2	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
7/24/96	96399920602	BPXA	y	C PAD WELL 30,	Hydraulic Oil	2	Took Report, Case Closed 07-26-96		Seal Failure
7/30/96	96399921201	ARCO	y	Drill Site 5,	Crude	2	Took Report, Case Closed 01-00-00		Valve Failure
8/17/96	96399923002	ARCO	y	Drill Site 14,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Valve Failure
8/20/96	96399923302	BPXA	y	W PAD WELL 40,	Diesel	2	Took Report, Case Closed 01-00-00		Human Error
9/15/96	96399925902	ARCO	y	CCP,	Engine Lube Oil	2	Took Report, Case Closed 01-00-00		Valve Failure
10/30/96	96399930402	ARCO	y	East Prudhoe Bay, MCC,	Transmission Oil	2	Took Report, Case Closed 01-00-00		Seal Failure
11/13/96	96399931801	BPXA	y	GC 3 SKID 25,	Crude	2	Took Report, Case Closed 01-00-00		Valve Failure
11/30/96	96399933502	ARCO	y	Drill Site 11,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure
12/2/96	96399933703	BPXA	y	W PAD,	Diesel	2	Took Report, Case Closed 01-00-00		Rollover/Capsize
12/15/96	96399935001	ARCO	y	EOA, DS 3,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 01-00-00		Unknown
1/6/97	97399900601	LITTLE RED SERVICES	y	East Prudhoe Bay, PBOC,	Diesel	2	Phone Follow-up, Case Closed 01-00-00		Valve Failure
1/8/97	97399900803	BPXA	y	West Prudhoe Bay, BOC BULLRAIL,	Diesel	2	Took Report, Case Closed 01-00-00		Seal Failure
1/12/97	97399901201	NORCON	y	East Prudhoe Bay, DS 11,	Crude	2	Took Report, Case Closed 01-00-00		Leak
1/19/97	97399901901	CTI	y	East Prudhoe Bay, DS 4,	Engine Lube Oil	2	Took Report, Case Closed 01-00-00		Seal Failure
1/21/97	97399902102	BPXA	y	West Prudhoe Bay, Well Pad C,	Crude	2	Took Report, Case Closed 01-00-00		Seal Failure
2/22/97	97399905301	DOWELL	y	East Prudhoe Bay, DS 2 WELL 39,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 02-22-97		Equipment Failure
2/26/97	97399905701	ARCO	y	East Prudhoe Bay, DS 17,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure
3/24/97	97399908302	ARCO	y	Flow Station 2 (FS-2),	Crude	2	Took Report, Final Report 03-28-97		Leak
3/29/97	97399908801	BPXA	ym	West Prudhoe Bay, PUT RIVER,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/29/97	97399908805	ARCO	ym	East Prudhoe Bay, SAG RIVER,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure
4/11/97	97399910101	ARCO	y	PRUDHOE BAY, CGF.,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Overfill
7/11/97	97399919202	BPXA	y	West Prudhoe Bay, B.P. BOC PAD.,	Diesel	2	Took Report, Case Closed 07-16-97		Line Failure
7/19/97	97399920003	BPXA	ym	EAST NORTH SLOPE, BP ENDICOTT 241 PIPE RACK.,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Equipment Failure
8/21/97	97399923302	ARCO	y	East Prudhoe Bay, ARCO DS6.,	Emulsion Breaker	2	Took Report, Case Closed 01-00-00		Gauge/Site Glass Failure
8/21/97	97399923303	ARCO	y	East Prudhoe Bay, ARCO DS 6.,	Emulsion Breaker	2	Phone Follow-up, Case Closed 01-00-00		Gauge/Site Glass Failure
10/1/97	97399927401	PEAK OIL COMPANY	ym	West North Slope, PEAK OIL, COTU FUEL DOCK.,	Diesel	2	Phone Follow-up, Case Closed 01-00-00		Valve Failure
11/8/97	97399931202	B.P.	y	West North Slope, B.P. Well Pad M (DOWELL),	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 02-19-98		Puncture
11/28/97	97399933201	ARCO	y	EAST NORTH SLOPE, ARCO DS 3.,	Crude	2	Took Report, Case Closed 01-00-00		Overfill
12/16/97	97399935002	ARCO	y	EAST NORTH SLOPE, ARCO MCC.,	Engine Lube Oil	2	Took Report, Case Closed 12-22-97		Unknown
1/9/98	98399900902	B.P.	y	West North Slope, B.P. Well Pad F.,	Transmission Oil	2	Took Report, Case Closed 01-00-00		Leak
2/4/98	98399903501	ARCO	y	EAST NORTH SLOPE, ARCO DS 1.,	Corrosion Inhibitor	2	Took Report, Case Closed 01-00-00		Leak
2/14/98	98399904501	B.P.	y	West North Slope, B.P. PAD 3.,	Other	2	Took Report, Case Closed 01-00-00		Cargo Not Secured
2/20/98	98399905104	ARCO	y	EAST NORTH SLOPE, ARCO DS 18.,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Leak
2/24/98	98399905502	ARCO	y	EAST NORTH SLOPE, ARCO DS 7.,	Diesel	2	Took Report, Case Closed 01-00-00		Line Failure
2/25/98	98399905602	ARCO	y	EAST NORTH SLOPE, ARCO FS 2.,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 01-00-00		Corrosion
2/28/98	98399905902	B.P.	y	EAST NORTH SLOPE, B.P.Well Pad Z.,	Crude	2	Took Report, Case Closed 01-00-00		Seal Failure
3/7/98	98399906601	VECO	y	EAST NORTH SLOPE, VECO/ARCO DS 9, WELL 23.,	Other	2	Took Report, Case Closed 01-00-00		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/8/98	98399906701	BPXA	y	West North Slope, B.P. Well Pad M.,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Leak
3/8/98	98399906702	ARCO	y	EAST NORTH SLOPE, ARCO DS 11.,	Crude	2	Took Report, Case Closed 03-24-98		Valve Failure
3/15/98	98399907402	ARCO	y	EAST NORTH SLOPE, ARCO DS 15.,	Crude	2	Took Report, Case Closed 04-14-98		Leak
3/17/98	98399907601	BPXA	y	EAST NORTH SLOPE, BP J PAD.,	Crude	2	Phone Follow-up, Case Closed 03-31-98		Leak
3/27/98	98399908601	B.P.	y	West North Slope, B.P. Well Pad D.,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-00-00		Human Error
3/31/98	98399909002	ARCO	y	EAST NORTH SLOPE, ARCO PBOC.,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure
4/4/98	98399909403	ARCO	y	EAST NORTH SLOPE, ARCO CGF.,	Other	2	Took Report, Case Closed 01-00-00		Leak
4/5/98	98399909502	ARCO	y	EAST NORTH SLOPE, ARCO PBOC.,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Leak
4/15/98	98399910502	ARCO	y	EAST NORTH SLOPE, ARCO, DS15.,	Other	2	Took Report, Other 12-03-99		Valve Failure
4/16/98	98399910603	B.P.	y	West North Slope, B.P. Well Pad N.,	Crude	2	Took Report, Case Closed 04-23-98		Valve Failure
5/6/98	98399912603	ARCO	y	EAST NORTH SLOPE, ARCO DS 18.,	Diesel	2	Took Report, Case Closed 01-00-00		Leak
5/27/98	98399914701	B.P.	ym	EAST NORTH SLOPE, B.P. ENDICOTT (98-04) MODULE 303,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Leak
5/29/98	98399914901	BPXA	ym	West North Slope, B.P. SANTA FE PAD., Santa Fe Pad	Crude	2	Took Report, Final closure pending 10-14-99		Intentional Release
6/1/98	98399915201	B.P.	ym	EAST NORTH SLOPE, B.P. ENDICOTT (98-06) 241 PIPERA,	Other	2	Took Report, Case Closed 01-00-00		Leak
6/3/98	98399915403	ARCO	y	EAST NORTH SLOPE, ARCO SPINE ROAD,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Line Failure
6/10/98	98399916103	B.P.	y	EAST NORTH SLOPE, B.P. Well Pad C,	Crude	2	Took Report, Case Closed 01-00-00		Valve Failure
6/10/98	98399916104	B.P.	y	EAST NORTH SLOPE, B.P. Well Pad C,	Crude	2	Took Report, Case Closed 07-01-98		Valve Failure
7/5/98	98399918601	PEAK OIL FIELD SERVICES/ARCO	ym	EAST NORTH SLOPE, PEAK OIL FIELD SERVICES/ARCO,	Hydraulic Oil	2	Took Report, Case Closed 01-00-00		Seal Failure
7/18/98	98399919901	B.P.	y	EAST NORTH SLOPE, ARCO DS 07,	Drilling Muds	2	Took Report, Case Closed 01-00-00		Puncture

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/14/98	98399925703	BPXA	ym	West Prudhoe Bay, BP, GC-1 GAS SECTION,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 09-15-98		Leak
9/22/98	98399926503	BPXA	ym	EAST NORTH SLOPE, EAST SIDE OF MOD 306,	Hydraulic Oil	2	Phone Follow-up, Case Closed 01-00-00		Line Failure
10/10/98	98399928303	POOL ARCTIC	y	East Prudhoe Bay, ARCO DRILL SITE L1,	Drilling Muds	2	Took Report, Case Closed 12-22-98		Leak
11/21/98	98399932502	ARCO ALASKA, INC	ym	East Prudhoe Bay, OPERATING CENTER,	Diesel	2	Took Report, Case Closed 11-21-98		Seal Failure
12/1/98	98399933501	FAIRWEATHER	y	West Prudhoe Bay, BOC PAD,	Engine Lube Oil	2	Took Report, Case Closed 12-08-98		Vehicle Leak, All
12/26/98	98399936001	BPXA	y	West Prudhoe Bay, BP, WEST BEACH #6,	Drilling Muds	2	Took Report, Case Closed 01-05-99		Seal Failure
1/2/99	99399900201	PEAK	y	West Prudhoe Bay, BP, Well Pad E,	Drilling Muds	2	Took Report, Case Closed 01-15-99		Overfill
1/25/99	99399902501	PEAK	ym	BP, V-200 ICE PAD,	Hydraulic Oil	2	Took Report, Case Closed 01-30-99		Leak
1/26/99	99399902601	NABORS CASING	ym	WEST OPERATING AREA, ACCESS ROAD,	Ethylene Glycol (Antifreeze)	2	Field Visit/s, Case Closed 02-01-99		Line Failure
3/6/99	99399906501	BPXA	y	BP, Well Pad Y,	Diesel	2	Took Report, Case Closed 03-12-99		Other
3/16/99	99399907501	ARCO	y	ARCO, EOA, PBOC PAD,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 03-28-99		Valve Failure
4/25/99	99399911503	WESTERN GEOPHYSICAL	ym	West North Slope, NPRA EAST, CREW 794,	Hydraulic Oil	2	Took Report, Case Closed 04-26-99		Cargo Not Secured
5/22/99	99399914201	ARCO	y	Drill Site 15,	Diesel	2	Took Report, Case Closed 05-30-99		Line Failure
5/30/99	99399915002	ARCO	y	ARCO, DS 3,	Hydraulic Oil	2	Took Report, Case Closed 06-01-99		Seal Failure
6/21/99	99399917201	NORCON	ym	East Prudhoe Bay, SPINE ROAD,	Diesel	2	Took Report, Case Closed 06-21-99		Other
7/5/99	99399918601	BPXA	y	West Prudhoe Bay, GC-3,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 07-05-99		Equipment Failure
7/8/99	99399918903	VECO	y	BP, WOA, CPS,	Diesel	2	Took Report, Case Closed 07-15-99		Line Failure
7/22/99	99399920301	VECO ALASKA	ym	East Prudhoe Bay, SPINE & BYPASS ROAD JUNCTION,	Ethylene Glycol (Antifreeze)	2	Took Report, Complaint/Report Received 07-23-99		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/29/99	99399921001	BPXA	y	West Prudhoe Bay, BP, Well Pad M,	Crude	2	Took Report, Case Closed 08-12-99		Leak
8/2/99	99399921401	ARCO ALASKA	y	East Prudhoe Bay, DS 6, WELL 2,	Crude	2	Took Report, Case Closed 08-02-99		Seal Failure
8/22/99	99399923404	PEAK OILFIELD SERVICE CO	ym	East Prudhoe Bay, SPRD, CENTRAL CHECK POINT TO PAD,	Diesel	2	Took Report, Case Closed 08-23-99		Leak
8/24/99	99399923601	ALASKA INTERSTATE CONSTRUCTIO N	y	ARCO, PBU, CPTS,	Hydraulic Oil	2	Took Report, Case Closed 09-10-99		Other
9/9/99	99399925201	ARCO	y	ARCO. PBU, DS 7,	Crude	2	Took Report, Case Closed 09-14-99		Other
9/9/99	99399925202	DOWELL SCHLUMBERG ER	y	ARCO, PRUDHOE BAY UNIT, Well Pad A,	Seawater	2	Took Report, Case Closed 09-14-99		Other
9/17/99	99399926001	BPXA	y	Well Pad B,	Hydraulic Oil	2	Took Report, Case Closed 09-22-99		Seal Failure
10/2/99	99399927501	ARCO ALASKA	y	East Prudhoe Bay, PM2,	Hydraulic Oil	2	Took Report, Case Closed 10-04-99		Human Error
10/10/99	99399928301	BPXA	y	West Prudhoe Bay, Well Pad F-14,	Crude	2	Took Report, Case Closed 10-11-99		Other
10/19/99	99399929202	ARCO ALASKA	ym	East Prudhoe Bay, DS15 BEHIND WELL HOUSE 25,	Crude	2	Took Report, Case Closed 10-26-99		Valve Failure
11/12/99	99399931601	ARCO ALASKA	y	Drill Site 2,	Diesel	2	Took Report, Case Closed 11-20-99		Valve Failure
11/24/99	99399932801	ARCO ALASKA	y	East Prudhoe Bay, DS18 WELL 12,	Crude	2	Took Report, Case Closed 11-26-99		Equipment Failure
11/24/99	99399932802	ARCO ALASKA	y	East Prudhoe Bay, DS11 WELL 25,	Engine Lube Oil	2	Took Report, Case Closed 11-26-99		Equipment Failure
12/14/99	99399934801	ARCO ALASKA	y	East Prudhoe Bay, LPC MODULE 54,	Diesel	2	Took Report, Case Closed 12-16-99		Valve Failure
1/4/00	00399900402	ARCO ALASKA	ym	West Prudhoe Bay, DRILLSITE L4 VENT PIT,	Crude	2	Took Report, Case Closed 01-09-00		Other
1/27/00	00399902702	BPXA	ym	West Prudhoe Bay, Well Pad X-10 WELLHOUSE,	Corrosion Inhibitor	2	Took Report, Case Closed 01-30-00		Equipment Failure
1/28/00	00399902802	DOWELL SCHLUMBER/A RCO/BPX	y	East Prudhoe Bay, DRILL SITE 16,	Drilling Muds	2	Took Report, Case Closed 01-30-00		External Factors
2/5/00	00399903602	ARCO ALASKA	y	EAST OPERATING AREA PRUDHOE BAY, POINT MAC 2-50,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 02-10-00		Human Error
2/20/00	00399905101	BPXA	ym	West Prudhoe Bay, PRICE PAD,	Hydraulic Oil	2	Took Report, Case Closed 02-21-00		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/21/00	00399905201	ARCO ALASKA	y	EAST OPERATING AREA PRUDHOE BAY, GRIND & INJECT,	Hydraulic Oil	2	Took Report, Case Closed 02-22-00		Line Failure
2/29/00	00399906002	HOUSTON CONTRACT/BP EXPLORATIO	ym	West Prudhoe Bay, NORTHSTAR PIPELINE ROW ICE ROAD,	Diesel	2	Phone Follow-up, Case Closed 03-06-00		Valve Failure
3/4/00	00399906402	BPXA	y	West Prudhoe Bay, BOC PAD,	Diesel	2	Took Report, Case Closed 03-06-00		Seal Failure
3/8/00	00399906801	NORDIC/BP EXPLORATION (ALASKA)	y	East Prudhoe Bay, Well Pad N,	Hydraulic Oil	2	Took Report, Case Closed 03-16-00		Seal Failure
3/13/00	00399907302	DOWELL SCHLUMBERGER/BPX	y	West Prudhoe Bay, Well Pad N,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 03-16-00		Overfill
3/27/00	00399908701	DOWELL SCHLUMBERGER/BPX(A)	y	West Prudhoe Bay, Well Pad A,	Crude	2	Took Report, Case Closed 03-29-00		Leak
3/31/00	00399909103	AK PETRO CONT/BP EXPLORATION	ym	West North Slope, PAD C WELL #18A,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 04-02-00		Overfill
4/4/00	00399909501	ARCO ALASKA	y	East Prudhoe Bay, LPC PAD,	Engine Lube Oil	2	Took Report, Case Closed 04-12-00		Leak
4/16/00	00399910701	ALASKA PETRO CONT/BP EXPLORATI	y	West North Slope, Well Pad M-24,	Crude	2	Took Report, Case Closed 04-16-00		Seal Failure
4/18/00	00399910902	ARCO ALASKA	y	East Prudhoe Bay, DRILLSITE 7,	Engine Lube Oil	2	Took Report, Case Closed 04-20-00		Gauge/Site Glass Failure
4/25/00	00399911601	NORDIC/BE EXPLORATION	y	West North Slope, Well Pad P,	Drilling Muds	2	Took Report, Case Closed 04-26-00		Equipment Failure
4/29/00	00399912005	PHILLIPS ALASKA	ym	East Prudhoe Bay, DRILLSITE 2 WELL 22,	Crude	2	Took Report, Case Closed 05-08-00		Valve Failure
4/30/00	00399912102	BAROID	y	PRUDHOE BAY MUD PLANT,	Hydraulic Oil	2	Took Report, Case Closed 05-01-00		Line Failure
5/9/00	00399913001	PHILLIPS ALASKA	ym	East Prudhoe Bay, DRILLSITE 7 MANIFOLD BUILDING,	Crude	2	Took Report, Case Closed 05-14-00		Other
5/11/00	00399913201	PHILLIPS ALASKA	y	East Prudhoe Bay, L5 WELL NK-34,	Diesel	2	Took Report, Case Closed 05-16-00		Human Error
5/16/00	00399913701	PHILLIPS ALASKA	ym	East Prudhoe Bay, DRILLSITE 6 WELL 1,	Hydraulic Oil	2	Took Report, Case Closed 05-17-00		Unknown
5/17/00	00399913801	PHILLIPS ALASKA	ym	East Prudhoe Bay, DRILLSITE 13 WELL 10,	Hydraulic Oil	2	Took Report, Case Closed 05-19-00		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/18/00	00399913901	PHILLIPS ALASKA	ym	East Prudhoe Bay, WMST IN FRONT OF DOOR #25 AT WAR,	Hydraulic Oil	2	Took Report, Case Closed 05-20-00		Line Failure
5/30/00	00399915101	PEAK OILFIELD/BP EXPLORATION	y	West Prudhoe Bay, Well Pad D,	Diesel	2	Took Report, Case Closed 05-30-00		Valve Failure
6/23/00	00399917501	BPXA	y	West Prudhoe Bay, Well Pad D, WELL D-11,	Crude	2	Took Report, Case Closed 06-26-00		Gauge/Site Glass Failure
6/24/00	00399917604	PHILLIPS ALASKA	y	East Prudhoe Bay, DRILLSITE 14, FLOW STATION 3,	Diesel	2	Took Report, Case Closed 06-27-00		Overfill
6/26/00	00399917802	PHILLIPS ALASKA	ym	East Prudhoe Bay, DRILLSITE 3, EDGE OF PAD ACROSS,	Crude	2	Took Report, Case Closed 07-02-00		Unknown
6/26/00	00399917801	PEAK OILFIELD SER/BPX	y	West Prudhoe Bay, ACCESS ROAD (WOA) ON P PAD,	Synthetic Oil	2	Took Report, Case Closed 06-28-00		Line Failure
6/30/00	00399918202	PEAK OILFIELD SER/BP EXPLORATION	y	Well Pad D,	Seawater	2	Took Report, Case Closed 06-30-00		Overfill
7/5/00	00399918702	PHILLIPS ALASKA	ym	EAST NORTH SLOPE, EAST OPERATING AREA, DRILL SITE,	Diesel	2	Took Report, Case Closed 07-08-00		Equipment Failure
7/15/00	00399919702	BPXA	ym	East Prudhoe Bay, SPINE RD,	Hydraulic Oil	2	Took Report, Case Closed 07-16-00		Line Failure
7/20/00	00399920201	DOWELL SCHLUMBERGER	ym	East Prudhoe Bay, DOWELL SCHLUMBERGER FACILITY,	Hydraulic Oil	2	Took Report, Case Closed 07-23-00		Line Failure
8/23/00	00399923601	BPXA	y	West Prudhoe Bay, GATHERING CENTER 3, SKID 2,	Crude	2	Took Report, Case Closed 08-23-00		Cargo Not Secured
9/8/00	00399925201	BPXA	y	West Prudhoe Bay GC-2 PAD,	Hydraulic Oil	2	Took Report, Case Closed 09-08-00		Equipment Failure
9/28/00	00399927201	ALASKA PETROLEUM CONTRACTORS	y	Drill Site 3,	Other	2	Took Report, Case Closed 09-28-00		Seal Failure
10/6/00	00399928001	BPXA	ym	East Prudhoe Bay, DRILLSITE 5 PAD AREA,	Hydraulic Oil	2	Took Report, Case Closed 10-09-00		Line Failure
10/18/00	00399929201	BPXA	y	West North Slope Well Pad E-16,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 10-19-00		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/31/00	00399930502	BAROID CO.	ym	West Prudhoe Bay DEADHORSE; WEST SIDE OF GRAVEL PA,	Hydraulic Oil	2	Phone Follow-up, Case Closed 10-31-00		Line Failure
12/4/00	00399933901	HB&R/ BPX	ym	West North Slope G-PAD/F-PAD ROAD,	Hydraulic Oil	2	Took Report, Case Closed 12-05-00		Collision/Allision
12/31/00	00399936601	AK PETRO CONTRACT/BP EXPLORATION	y	EAST NORTH SLOPE BOC PAD,	Corrosion Inhibitor	2	Took Report, Case Closed 12-31-00		Overfill
1/20/01	01399902002	VECO ALASKA/ BPX	y	EAST NORTH SLOPE DRILL SITE 15,	Diesel	2	Took Report, Case Closed 01-22-01		Valve Failure
1/27/01	01399902703	HOUSTON CONTRACT/BP X (ALASKA)	ym	West Prudhoe Bay, KUPARUK RESERVOIR, DEADARM PIT P,	Engine Lube Oil	2	Took Report, Case Closed 01-27-01		Leak
2/6/01	01399903701	BPXA	y	East Prudhoe Bay DRILL SITE 5,	Hydraulic Oil	2	Took Report, Case Closed 02-06-01		Seal Failure
2/7/01	01399903802	PEAK OILFIELD SERVICES/ BPX	y	EAST NORTH SLOPE DRILLSITE 05,	Hydraulic Oil	2	Took Report, Case Closed 02-07-01		Seal Failure
2/15/01	01399904604	BPXA	y	West North Slope Well Pad GC-2,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 02-16-01		External Factors
2/24/01	01399905502	NORDIC/ BPX	y	West North Slope Well Pad G,	Engine Lube Oil	2	Took Report, Case Closed 02-24-01		Leak
3/12/01	01399907102	BPXA	y	EAST NORTH SLOPE AGI PAD,	Hydraulic Oil	2	Took Report, Case Closed 03-13-01		Leak
3/20/01	01399907903	BPXA	y	EAST NORTH SLOPE DRILL SITE 12,	Diesel	2	Took Report, Complaint/Report Received 03-20-01		Seal Failure
3/20/01	01399907904	BPXA	y	EAST NORTH SLOPE DRILL SITE 12,	Diesel	2	Took Report, Final Report 04-02-01		Seal Failure
3/22/01	01399908101	SCHLUMBERGER/ BPX	y	EAST NORTH SLOPE DRILL SITE 02,	Hydraulic Oil	2	Took Report, Case Closed 03-22-01		Leak
4/1/01	01399909103	BPXA	y	EAST NORTH SLOPE ACCESS ROAD(EOA),	Hydraulic Oil	2	Took Report, Case Closed 04-01-01		Leak
4/4/01	01399909401	DOYON SERVICES/ BPX	y	West North Slope Well Pad E,	Diesel	2	Took Report, Case Closed 04-04-01		Leak
4/4/01	01399909402	NORCON/ BPX	y	EAST NORTH SLOPE SEAWATER INJECTION PLANT,	Engine Lube Oil	2	Took Report, Case Closed 04-04-01		Leak
4/5/01	01399909501	BPXA	ym	West North Slope WEST DOCK ROAD,	Engine Lube Oil	2	Took Report, Case Closed 04-05-01		Leak
4/13/01	01399910302	PEAK OILFIELD SERVICES CO.	y	West North Slope M-PAD,	Engine Lube Oil	2	Took Report, Case Closed 04-13-01		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/1/01	01399912101	BPXA	y	EAST NORTH SLOPE DRILL SITE 01,	Hydraulic Oil	2	Took Report, Case Closed 05-01-01		Valve Failure
5/18/01	01399913803	BPXA	y	West North Slope E-PAD WELL 16,	Crude	2	Took Report, Case Closed 05-18-01		Leak
5/22/01	01399914201	GBR EQUIPMENT/ BPX	y	West North Slope ACCESS ROAD (WOA),	Diesel	2	Took Report, Case Closed 05-22-01		Line Failure
5/26/01	01399914602	HALLIBURTON ENERGY SER/BPX	y	West North Slope Well Pad B,	Diesel	2	Took Report, Case Closed 05-26-01		Valve Failure
5/28/01	01399914803	BPXA	y	West North Slope Well Pad X-25,	Corrosion Inhibitor	2	Took Report, Case Closed 05-28-01		Leak
6/7/01	01399915802	BPXA	y	EAST NORTH SLOPE DRILL SITE 18,	Crude	2	Took Report, Case Closed 06-07-01		Unknown
6/23/01	01399917403	BPXA	y	West North Slope Well Pad P,	Produced Water	2	Took Report, Case Closed 06-23-01		Overfill
6/24/01	01399917506	PGS	ym	East Prudhoe Bay DEADHORSE SHOP,	Diesel	2	Took Report, Complaint/Report Received 07-30-01		Leak
6/24/01	01399917501	BPXA	y	EAST NORTH SLOPE PT. MAC 1&2,	Diesel	2	Took Report, Final Report 06-27-01		External Factors
7/2/01	01399918302	BPXA	y	West North Slope WEST DOCK,	Transmission Oil	2	Took Report, Case Closed 07-02-01		Leak
7/7/01	01399918802	CONAM/ PHILLIPS	ym	West North Slope CD2 ACCESS ROAD,	Hydraulic Oil	2	Took Report, Case Closed 07-07-01		Line Failure
7/19/01	01399920001	PEAK OILFIELD SERVICES/ BPX	y	West Prudhoe Bay Well Pad M,	Hydraulic Oil	2	Took Report, Case Closed 07-21-01		Leak
7/19/01	01399920002	DOYON DRILLING/ BPX	y	East Prudhoe Bay DRILL SITE 12,	Hydraulic Oil	2	Took Report, Case Closed 07-19-01		Leak
7/20/01	01399920101	BPXA	y	EAST NORTH SLOPE DRILL SITE 02,	Diesel	2	Took Report, Case Closed 07-20-01		Line Failure
8/1/01	01399921301	BPXA	y	EAST NORTH SLOPE DRILL SITE 05,	Crude	2	Took Report, Case Closed 08-05-01		Overfill
8/20/01	01399923202	BPXA	y	East Prudhoe Bay DS 18,	Crude	2	Took Report, Case Closed 08-26-01		Human Error
9/2/01	01399924503	BPXA	y	Well Pad V,	Hydraulic Oil	2	Took Report, Case Closed 09-04-01		Line Failure
9/5/01	01399924801	BPXA	y	Drill Site 1 (DS-1),	Crude	2	Took Report, Case Closed 09-10-01		Valve Failure
9/6/01	01399924902	BPXA	ym	East Prudhoe Bay, SAG RIVER,	Hydraulic Oil	2	Took Report, Case Closed 09-10-01		Line Failure
9/12/01	01399925503	ALASKA PETROLEUM CONTRACTORS	ym	CIC Facility,	Hydraulic Oil	2	Phone Follow-up, Case Closed 09-13-01		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/12/01	01399925502	BPXA	y	Drill Site 14,	Diesel	2	Phone Follow-up, Case Closed 09-13-01		Seal Failure
9/13/01	01399925601	BPXA	y	Well Pad V,	Hydraulic Oil	2	Phone Follow-up, Case Closed 09-13-01		Vehicle Leak, All
9/20/01	01399926301	BPXA	y	Well Pad J,	Corrosion Inhibitor	2	Took Report, Case Closed 09-21-01		Valve Failure
9/27/01	01399927002	BPXA	ym	Access Road,	Hydraulic Oil	2	Took Report, Case Closed 09-28-01		Unknown
10/2/01	01399927502	BPXA	y	Drill Site 1 (DS-1),	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 10-03-01		Valve Failure
10/5/01	01399927802	BPXA	y	Flow Station 1 (FS-1),	Produced Water	2	Took Report, Case Closed 10-09-01		Human Error
10/6/01	01399927901	BPXA	ym	SPINE ROAD, DEADHORSE,	Hydraulic Oil	2	Took Report, Case Closed 10-08-01		Equipment Failure
10/12/01	01399928501	BPXA	y	U-11 Bldg,	Transmission Oil	2	Took Report, Case Closed 10-13-01		Seal Failure
10/16/01	01399928902	BPXA	y	Well Pad S,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 10-17-01		Human Error
11/1/01	01399930503	BPXA	y	NGI,	Hydraulic Oil	2	Took Report, Case Closed 11-04-01		Line Failure
11/21/01	01399932501	BPXA	ym	West Prudhoe Bay,	Hydraulic Oil	2	Took Report, Case Closed 11-21-01		Equipment Failure
12/2/01	01399933601	BPXA	y	East Prudhoe Bay, PT MCINTYRE #2,	Diesel	2	Took Report, Final Report 12-04-01		Human Error
12/15/01	01399934902	BPXA	y	Drill Site 11,	Diesel	2	Took Report, Final Report 12-17-01		Valve Failure
12/20/01	01399935403	BPXA	y	East Prudhoe Bay, PAD 3,	Hydraulic Oil	2	Took Report, Final Report 12-21-01		Vehicle Leak, All
1/1/02	02399900102	BPXA	y	West Prudhoe Bay SPINE RD,	Engine Lube Oil	2	Took Report, Final Report 01-02-02		Vehicle Leak, All
1/4/02	02399900401	ALASKA PETRO/BP EXPLORATION	y	Pad C,	Methyl Alcohol (Methanol)	2	Phone Follow-up, Case Closed 03-19-02		Equipment Failure
1/9/02	02399900903	BPXA	y	Drill Site 15,	Corrosion Inhibitor	2	Took Report, Final Report 01-15-02		Gauge/Site Glass Failure
1/26/02	02399902601	BPXA	y	Drill Site 6,	Hydraulic Oil	2	Took Report, Complaint/Report Received 01-28-02		Line Failure
1/28/02	02399902801	BPXA	y	Well Pad K,	Diesel	2	Took Report, Complaint/Report Received 01-28-02		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/6/02	02399903704	DOWELL SCHLUMBERGER/BP EXPLORATION	y	Drill Site 15,	Hydraulic Oil	2	Took Report, Complaint/Report Received 02-08-02		Leak
2/7/02	02399903802	BPXA	y	Well Pad H,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 02-11-02		Leak
2/8/02	02399903901	BPXA	y	Sag River Delta ice road,	Engine Lube Oil	2	Took Report, Case Closed 02-10-02		Equipment Failure
2/9/02	02399904001	BPXA	y	Drill Site L-4,	Crude	2	Took Report, Final Report 02-14-02		Leak
2/16/02	02399904703	PEAK OILFIELD SER/BP EXPLORATION	ym	Lake Eileen, NW,	Hydraulic Oil	2	Took Report, Case Closed 02-19-02		Equipment Failure
2/19/02	02399905003	VECO ALASKA/BP EXPLORATION (ALASKA)	y	DS 16,	Engine Lube Oil	2	Took Report, Case Closed 02-21-02		Seal Failure
2/22/02	02399905301	DOWELL SCHLUMBERGER/BP EXPLORATION	y	Drill Site 15,	Drilling Muds	2	Took Report, Complaint/Report Received 02-22-02		Valve Failure
3/1/02	02399906002	HOUSTON CONTRACTING /BP EXPLORATION	y	East Dock,	Hydraulic Oil	2	Took Report, Case Closed 03-05-02		Line Failure
3/2/02	02399906102	BPXA	y	Drill Site 15,	Produced Water	2	Phone Follow-up, Final Report 03-05-02		Equipment Failure
3/5/02	02399906402	BPXA	y	VMS Building,	Diesel	2	Took Report, Complaint/Report Received 03-05-02		Line Failure
3/7/02	02399906601	BPXA	y	Well Pad A,	Corrosion Inhibitor	2	Took Report, Complaint/Report Received 03-07-02		Equipment Failure
3/20/02	02399907903	BPXA	y	Well Pad B,	Methyl Alcohol (Methanol)	2	Took Report, Final Report 03-22-02		Valve Failure
3/20/02	02399907905	ALASKA PETROLEUM CONT/BP EXPLORATIO	y	Well Pad L,	Corrosion Inhibitor	2	Took Report, Final Report 03-22-02		Crack
3/27/02	02399908603	BPXA	y	Well Pad V,	Seawater	2	Took Report, Final Report 03-28-02		Unknown
4/9/02	02399909901	BPXA	y	Drill Site 4,	Hydraulic Oil	2	Took Report, Final Report 04-10-02		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/13/02	02399910302	HALLIBURTON ENERGY SER/BPX	y	BP, Well Pad E,	Diesel	2	Took Report, Complaint/Report Received 04-13-02		Equipment Failure
4/17/02	02399910702	BPXA	y	Drill Site 7,	Hydraulic Oil	2	Took Report, Case Closed 04-19-02		Line Failure
4/20/02	02399911001	BPXA	y	Drill Site 4,	Hydraulic Oil	2	Took Report, Complaint/Report Received 04-22-02		Line Failure
5/15/02	02399913501	BPXA	ym	East Prudhoe Bay,	Engine Lube Oil	2	Took Report, Case Closed 05-17-02		Equipment Failure
5/16/02	02399913601	BPXA	y	L-1 Module,	Hydraulic Oil	2	Took Report, Case Closed 05-20-02		Corrosion
5/17/02	02399913701	BPXA	y	DS 5,	Hydraulic Oil	2	Took Report, Case Closed 05-20-02		Unknown
5/18/02	02399913801	BPXA	y	DS 5,	Hydraulic Oil	2	Took Report, Complaint/Report Received 05-19-02		Unknown
5/20/02	02399914001	BPXA	y	Drill Site 4,	Hydraulic Oil	2	Took Report, Complaint/Report Received 05-22-02		Unknown
5/23/02	02399914302	BPXA	y	East Dock,	Hydraulic Oil	2	Took Report, Case Closed 05-28-02		Line Failure
5/27/02	02399914702	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Main Construction Camp (MCC),	Diesel	2	Took Report, Complaint/Report Received 05-28-02		Leak
5/29/02	02399914901	BPXA	y	Well Pad F,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 05-31-02		Equipment Failure
6/26/02	02399917702	BPXA	y	DS 5,	Diesel	2	Took Report, Case Closed 06-28-02		Valve Failure
7/9/02	02399919002	BPXA	y	Pad 3,	Diesel	2	Took Report, Complaint/Report Received 07-11-02		Equipment Failure
7/13/02	02399919403	BPXA	y	DS 5,	Diesel	2	Phone Follow-up, Complaint/Report Received 07-15-02		Equipment Failure
7/19/02	02399920004	BPXA	ym	Service City Pad,	Diesel	2	Took Report, Case Closed 07-22-02		Line Failure
7/19/02	02399920002	BPXA	y	Gathering Center 2 (GC-2),	Hydraulic Oil	2	Took Report, Case Closed 07-22-02		Equipment Failure
7/19/02	02399920003	BPXA	y	Drill Site 7,	Seawater	2	Took Report, Final Report 07-22-02		Equipment Failure
7/31/02	02399921203	VECO ALASKA/BP EXPLORATION (ALASKA)	y	L Pad (Steamer Pad),	Diesel	2	Took Report, Complaint/Report Received 08-01-02		Other
8/4/02	02399921602	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Prudhoe Bay Mix Plant,	Ethylene Glycol (Antifreeze)	2	Took Report, Case Closed 08-26-02		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/25/02	02399923703	ALASKA PETROLEUM CONTRACTORS	y	Well Pad Z-6,	Corrosion Inhibitor	2	Took Report, Case Closed 08-26-02		Overfill
8/26/02	02399923801	BPXA	y	DS 5,	Crude	2	Phone Follow-up, Final Report 08-29-02		Valve Failure
9/10/02	02399925301	HALLIBURTON SERVICES/ BPX	y	Drill Site 9 (DS-9),	Diesel	2	Took Report, Complaint/Report Received 09-11-02		Human Error
9/11/02	02399925402	NABORS DRILLING/BP EXPLORATION	y	East Dock,	Drilling Muds	2	Took Report, Complaint/Report Received 09-11-02		Human Error
10/5/02	02399927801	BPXA	y	DS 5,	Crude	2	Took Report, Complaint/Report Received 10-14-02		Seal Failure
10/10/02	02399928301	Sea Flex	y	Well Pad C,	Transmission Oil	2	Phone Follow-up, Technical Assistance 10-14-02		Human Error
12/6/02	02399934001	BPXA	y	BP, WOA, F PAD,	Crude	2	Took Report, Case Closed 12-18-02		Overfill
1/2/03	03399900201	BPXA	y	East Prudhoe Bay, L4,	Crude	2	Took Report, Final Report 01-03-03		Overfill
1/11/03	03399901101	BPXA	y	BP, PBU, Well Pad N,	Diesel	2	Took Report, Final Report 01-13-03		Line Failure
1/13/03	03399901301	BPXA	y	Main Construction Camp (MCC),	Engine Lube Oil	2	Took Report, Final Report 01-13-03		Leak
1/14/03	03399901402	BPXA	y	Well Pad S,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-15-03		Leak
1/15/03	03399901504	BPXA	ym	Entrance to Spine Road,	Engine Lube Oil	2	Took Report, Complaint/Report Received 01-15-03		Human Error
1/29/03	03399902902	BPXA	y	Well Pad S,	Hydraulic Oil	2	Took Report, Case Closed 01-30-03		Valve Failure
2/15/03	03399904601	BPXA	ym	West Prudhoe Bay ACCESS ROAD,	Hydraulic Oil	2	Took Report, Case Closed 02-18-03		Unknown
2/15/03	03399904602	BPXA	y	ARCO, DRILL SITE 14,	Engine Lube Oil	2	Took Report, Final Report 02-18-03		Vehicle Leak, All
2/15/03	03399904606	BPXA	y	Drill Site 14,	Engine Lube Oil	2	Took Report, Case Closed 03-04-03		Equipment Failure
2/16/03	03399904703	BPXA	y	Drill Site 15,	Diesel	2	Took Report, Final Report 02-17-03		Overfill
3/8/03	03399906706	BPXA	y	Main Construction Camp (MCC),	Hydraulic Oil	2	Took Report, Case Closed 03-10-03		Vehicle Leak, All
4/6/03	03399909602	BPXA	y	Drill Site 15,	Crude	2	Took Report, Case Closed 04-10-03		Valve Failure
4/11/03	03399910103	BPXA	y	West Prudhoe Bay SPINE RD,	Diesel	2	Took Report, Case Closed 04-14-03		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/14/03	03399910404	BPXA	y	Drill Site 13,	Diesel	2	Took Report, Case Closed 04-15-03		Seal Failure
4/14/03	03399910405	BPXA	y	East Prudhoe Bay, SURFCOTE,	Hydraulic Oil	2	Took Report, Case Closed 04-21-03		Puncture
4/18/03	03399910802	BPXA	y	Well Pad G,	Crude	2	Took Report, Case Closed 04-21-03		Human Error
5/18/03	03399913803	BPXA	y	Hotwater Plant Pad,	Crude	2	Took Report, Case Closed 05-21-03		Equipment Failure
5/20/03	03399914003	BPXA	y	Well Pad M,	Crude	2	Took Report, Case Closed 05-22-03		Leak
5/26/03	03399914601	BPXA	y	Drill Site 3,	Diesel	2	Took Report, Case Closed 05-30-03		Leak
5/31/03	03399915101	BPXA	y	Well Pad C,	Hydraulic Oil	2	Took Report, Case Closed 06-03-03		Seal Failure
6/5/03	03399915604	BPXA	y	East Prudhoe Bay, DS 16,	Hydraulic Oil	2	Took Report, Case Closed 06-06-03		Seal Failure
6/7/03	03399915801	BPXA	y	FLEET SHOP,	Diesel	2	Took Report, Case Closed 06-09-03		Human Error
6/10/03	03399916101	BPXA	y	Well Pad W,	Crude	2	Took Report, Case Closed 06-12-03		Seal Failure
6/14/03	03399916503	BPXA	y	Flow Station 2 (FS-2),	Produced Water	2	Took Report, Case Closed 06-17-03		Human Error
6/15/03	03399916602	BPXA	y	East Prudhoe Bay PBOC,	Diesel	2	Took Report, Case Closed 06-18-03		Unknown
6/20/03	03399917102	BPXA	y	Well Pad S,	Hydraulic Oil	2	Took Report, Case Closed 06-23-03		Seal Failure
6/28/03	03399917901	BPXA	y	Drill Site 14,	Crude	2	Took Report, Case Closed 06-30-03		Valve Failure
7/2/03	03399918301	BPXA	y	East Prudhoe Bay, DRILL SITE 15,	Crude	2	Took Report, Case Closed 07-07-03		Leak
7/4/03	03399918502	BPXA	y	Well Pad H,	Crude	2	Took Report, Case Closed 07-23-03		Leak
7/7/03	03399918802	BPXA	y	Flow Station 2 (FS-2),	Corrosion Inhibitor	2	Took Report, Case Closed 07-09-03		Human Error
7/14/03	03399919501	BPXA	y	Well Pad M,	Corrosion Inhibitor	2	Took Report, Case Closed 12-05-03		Leak
7/23/03	03399920403	BPXA	y	Flow Station 1 (FS-1),	Hydraulic Oil	2	Took Report, Case Closed 07-24-03		Line Failure
7/31/03	03399921201	CROWLEY MARITIME	y	West Dock,	Process Water	2	Took Report, Case Closed 07-31-03		Other
8/1/03	03399921301	BPXA	y	Well Pad X,	Crude	2	Phone Follow-up, Case Closed 08-28-03		Seal Failure
8/1/03	03399921302	BPXA	y	GC 1,	Diesel	2	Phone Follow-up, Case Closed 08-11-03		Vehicle Leak, All
8/2/03	03399921401	BPXA	y	East Prudhoe Bay PBOC,	Diesel	2	Took Report, Case Closed 08-04-03		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/7/03	03399921903	BPXA	y	West Prudhoe Bay, R PAD,	Diesel	2	Took Report, Case Closed 06-01-04		Leak
8/9/03	03399922101	BPXA	y	U-11 Bldg,	Diesel	2	Took Report, Case Closed 08-11-03		Unknown
8/10/03	03399922201	BPXA	y	NGI,	Crude	2	Phone Follow-up, Case Closed 09-22-03		Leak
8/21/03	03399923303	BPXA	y	FLEET SHOP,	Engine Lube Oil	2	Took Report, Case Closed 08-22-03		Equipment Failure
8/25/03	03399923701	BPXA	y	Drill Site 15,	Grease	2	Took Report, Case Closed 08-25-03		Unknown
9/5/03	03399924801	BPXA	y	Central Gas Facility (CGF),	Hydraulic Oil	2	Took Report, Case Closed 09-08-03		Seal Failure
9/23/03	03399926601	BPXA	y	W PAD,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 09-24-03		Valve Failure
9/23/03	03399926602	BPXA	y	West Prudhoe Bay SPINE RD,	Hydraulic Oil	2	Took Report, Case Closed 09-24-03		Unknown
9/25/03	03399926801	BPXA	y	DS 16,	Diesel	2	Took Report, Case Closed 10-27-03		Equipment Failure
10/8/03	03399928101	BPXA	y	Well Pad D,	Diesel	2	Field Visit/s, Case Closed 06-17-04		Leak
10/12/03	03399928501	BPXA	y	Drill Site 1 (DS-1),	Crude	2	Took Report, Case Closed 07-26-04		Equipment Failure
11/29/03	03399933303	BPXA	ym	Access Road,	Hydraulic Oil	2	Took Report, Case Closed 12-02-03		Line Failure
12/7/03	03399934104	BPXA	y	Drill Site 4,	Hydraulic Oil	2	Took Report, Case Closed 12-08-03		Equipment Failure
12/14/03	03399934801	BPXA	y	Central Gas Facility (CGF),	Hydraulic Oil	2	Took Report, Case Closed 12-18-03		Seal Failure
12/23/03	03399935701	BPXA	y	Well Pad J,	Crude	2	Phone Follow-up, Case Closed 01-08-04		Equipment Failure
1/2/04	04399900201	BPXA	y	Well Pad K,	Crude	2	Took Report, Case Closed 01-14-04		Valve Failure
1/14/04	04399901403	BPXA	y	Well Pad D,	Crude	2	Took Report, Case Closed 01-20-04		Human Error
1/15/04	04399901501	BPXA	y	Drill Site 14,	Corrosion Inhibitor	2	Phone Follow-up, Case Closed 08-13-04		Leak
1/18/04	04399901801	BPXA	y	FLEET SHOP,	Hydraulic Oil	2	Took Report, Case Closed 01-20-04		External Factors
1/23/04	04399902302	Canspec	y	FLEET SHOP,	Engine Lube Oil	2	Took Report, Case Closed 01-26-04		Seal Failure
2/8/04	04399903901	NANA OILFIELD SERVICES	y	Central Operating Transfer Unit (COTU),	Diesel	2	Took Report, Case Closed 02-10-04		Valve Failure
2/12/04	04399904301	BPXA	ym	SPINE ROAD, DEADHORSE,	Hydraulic Oil	2	Phone Follow-up, Case Closed 02-18-04		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/14/04	04399904501	BPXA	y	Lisburne Production Center (LPC),	Diesel	2	Took Report, Case Closed 02-17-04		External Factors
2/18/04	04399904902	BPXA	y	Prudhoe Bay Operations Center (PBOC),	Engine Lube Oil	2	Took Report, Case Closed 03-02-04		External Factors
2/26/04	04399905702	BPXA	ym	SPINE ROAD, DEADHORSE,	Transmission Oil	2	Took Report, Case Closed 03-01-04		Seal Failure
2/26/04	04399905701	BPXA	y	Flow Station 1 (FS-1),	Natural Gas Liquids	2	Took Report, Case Closed 03-06-04		Leak
2/26/04	04399905703	BPXA	y	West Prudhoe Bay, R PAD,	Hydraulic Oil	2	Took Report, Case Closed 02-27-04		Equipment Failure
2/28/04	04399905903	BPXA	y	Well Pad A,	Crude	2	Phone Follow-up, Case Closed 03-10-04		Unknown
3/3/04	04399906302	BPXA	y	Drill Site 2,	Hydraulic Oil	2	Took Report, Case Closed 03-06-04		Line Failure
3/8/04	04399906801	BPXA	y	West Prudhoe Bay, BP, BOC PAD,	Engine Lube Oil	2	Took Report, Case Closed 03-08-04		Equipment Failure
3/8/04	04399906802	BPXA	y	Flow Station 1 (FS-1),	Crude	2	Took Report, Case Closed 07-27-04		Overfill
3/24/04	04399908401	BPXA	y	Well Pad L,	Other	2	Phone Follow-up, Case Closed 03-26-04		Human Error
3/25/04	04399908501	BPXA	ym	Access Road,	Hydraulic Oil	2	Took Report, Case Closed 03-30-04		Equipment Failure
3/26/04	04399908602	BPXA	y	DS 16,	Hydraulic Oil	2	Took Report, Case Closed 03-30-04		Line Failure
3/28/04	04399908801	BPXA	y	Flow Station 1 (FS-1),	Natural Gas Liquids	2	Took Report, Field Visit 07-17-04		Leak
4/1/04	04399909201	BPXA	ym	Pipeline right-Of-Way,	Engine Lube Oil	2	Took Report, Case Closed 04-05-04		Equipment Failure
4/2/04	04399909301	BPXA	y	Main Construction Camp (MCC),	Diesel	2	Took Report, Case Closed 04-05-04		Human Error
4/4/04	04399909501	BPXA	y	Drill Site 1 (DS-1),	Hydraulic Oil	2	Took Report, Case Closed 04-06-04		Line Failure
4/7/04	04399909802	BPXA	y	Prudhoe Bay Operations Center (PBOC),	Diesel	2	Took Report, Case Closed 04-09-04		Other
4/7/04	04399909803	Tetra Tech FW, Inc	y	Point McIntyre,	Hydraulic Oil	2	Phone Follow-up, Case Closed 04-08-04		Line Failure
4/27/04	04399911802	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Crude	2	Phone Follow-up, Case Closed 05-05-04		Equipment Failure
5/2/04	04399912304	BPXA	y	West Prudhoe Bay, BP, Well Pad T,	Hydraulic Oil	2	Took Report, Case Closed 05-03-04		Seal Failure
5/15/04	04399913601	BPXA	y	Well Pad J,	Hydraulic Oil	2	Took Report, Case Closed 05-17-04		Equipment Failure
5/15/04	04399913602	BPXA	y	EAST NORTH SLOPE, DRILL SITE 11,	Crude	2	Took Report, Case Closed 05-15-04		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/18/04	04399913902	BPXA	y	West North Slope Well Pad Z,	Diesel	2	Took Report, Case Closed 05-18-04		Equipment Failure
5/31/04	04399915201	BPXA	y	VMS Building,	Transmission Oil	2	Took Report, Case Closed 06-03-04		Equipment Failure
6/1/04	04399915301	BPXA	y	Drill Site 13,	Hydraulic Oil	2	Took Report, Case Closed 06-07-04		Equipment Failure
6/11/04	04399916301	ASRC Energy Ser (formerly APC)	y	Drill Site 4,	Crude	2	Took Report, Case Closed 06-17-04		Seal Failure
6/29/04	04399918101	BPXA	y	Well Pad B,	Crude	2	Took Report, Case Closed 07-01-04		Equipment Failure
7/4/04	04399918603	BPXA	y	Drill Site 14,	Hydraulic Oil	2	Took Report, Case Closed 07-06-04		Line Failure
7/7/04	04399918901	BPXA	y	Drill Site L-4,	Crude	2	Phone Follow-up, Case Closed 01-13-05		Equipment Failure
7/13/04	04399919501	ASRC Energy Ser (formerly APC)	y	PAD 10,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 07-16-04		External Factors
7/23/04	04399920501	BPXA	y	Drill Site 13,	Diesel	2	Took Report, Case Closed 07-26-04		Equipment Failure
7/30/04	04399921202	BPXA	y	MCC Fuel Dock,	Engine Lube Oil	2	Took Report, Case Closed 07-31-04		Seal Failure
8/3/04	04399921601	BPXA	y	Drill Site 2,	Crude	2	Took Report, Case Closed 08-12-04		Human Error
8/7/04	04399922001	BPXA	y	Drill Site 15,	Hydraulic Oil	2	Took Report, Case Closed 08-16-04		Cargo Not Secured
8/8/04	04399922101	BPXA	y	West Gas Injection,	Hydraulic Oil	2	Took Report, Case Closed 08-16-04		Seal Failure
9/1/04	04399924502	ASCI	y	Pad C,	Engine Lube Oil	2	Took Report, Case Closed 09-07-04		Leak
10/3/04	04399927701	BPXA	y	Well Pad V,	Hydraulic Oil	2	Took Report, Case Closed 10-04-04		Seal Failure
11/2/04	04399930702	ASRC Energy Ser (formerly APC)	y	DS 16,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 11-09-04		Valve Failure
11/3/04	04399930801	BPXA	y	Drill Site 4,	Hydraulic Oil	2	Took Report, Case Closed 11-09-04		Human Error
11/7/04	04399931202	BPXA	y	Well Pad V,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 11-08-04		Unknown
11/19/04	04399932401	BPXA	y	Well Pad H,	Corrosion Inhibitor	2	Took Report, Case Closed 11-22-04		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/5/04	04399934002	BPXA	y	E PAD,	Methyl Alcohol (Methanol)	2	Phone Follow-up, Final Report 01-18-05		Seal Failure
12/20/04	04399935501	BPXA	y	Well Pad D,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 09-22-05		Equipment Failure
1/2/05	05399900201	BPXA	y	Drill Site 12,	Corrosion Inhibitor	2	Field Visit/s, Final Report 09-20-05		Unknown
1/3/05	05399900301	BPXA	y	Drill Site 12, DS-12 corr inhib	Corrosion Inhibitor	2	Field Visit/s, Case Closed 06-29-05		Line Failure
1/5/05	05399900501	BPXA	y	East Prudhoe Bay DRILL SITE 12, DS-12 corr inhibitor spill	Corrosion Inhibitor	2	Phone Follow-up, Case Closed 08-31-06		Corrosion
1/7/05	05399900701	BPXA	y	Well Pad D,	Diesel	2	Took Report, Case Closed 01-13-05		Human Error
1/7/05	05399900702	BPXA	y	Flow Station 3 (FS-3),	Natural Gas Liquids	2	Took Report, Case Closed 01-21-05		Equipment Failure
1/16/05	05399901602	BPXA	y	VMS Building,	Diesel	2	Took Report, Case Closed 01-18-05		Leak
1/19/05	05399901902	BPXA	y	Flow Station 1 (FS-1),	Natural Gas Liquids	2	Phone Follow-up, Case Closed 04-07-05		Equipment Failure
1/21/05	05399902101	BPXA	y	Well Pad L,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 01-24-05		Equipment Failure
2/11/05	05399904201	BPXA	y	Well Pad J,	Hydraulic Oil	2	Took Report, Case Closed 02-14-05		Line Failure
2/12/05	05399904301	BPXA	y	c Pad,	Corrosion Inhibitor	2	Took Report, Case Closed 02-14-05		Seal Failure
2/15/05	05399904602	BPXA	y	Drill Site 11,	Crude	2	Took Report, Case Closed 02-24-05		Human Error
2/27/05	05399905801	BPXA	y	Well Pad Z,	Hydraulic Oil	2	Took Report, Case Closed 02-28-05		Line Failure
3/5/05	05399906401	BPXA	y	POINT MCINTYRE, PM 2,	Corrosion Inhibitor	2	Took Report, Case Closed 03-06-05		Leak
3/7/05	05399906601	BPXA	y	Drill Site 14,	Transmission Oil	2	Took Report, Case Closed 03-14-05		Seal Failure
3/12/05	05399907102	BPXA	y	CPS Maintenance/Central Skid,	Hydraulic Oil	2	Took Report, Case Closed 03-14-05		Line Failure
3/12/05	05399907104	BPXA	y	Well Pad L,	Hydraulic Oil	2	Took Report, Case Closed 03-15-05		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/18/05	05399907702	BPXA	y	DS L2,	Methyl Alcohol (Methanol)	2	Phone Follow-up, Case Closed 03-21-05		Valve Failure
3/31/05	05399909001	BPXA	y	FLEET SHOP,	Hydraulic Oil	2	Took Report, Case Closed 04-07-05		Seal Failure
4/4/05	05399909401	BPXA	y	Flow Station 3 (FS-3),	Corrosion Inhibitor	2	Took Report, Case Closed 04-07-05		Human Error
4/10/05	05399910002	BPXA	y	Well Pad M,	Crude	2	Took Report, Case Closed 04-14-05		Valve Failure
4/14/05	05399910404	BPXA	y	Drill Site 9 (DS-9),	Diesel	2	Phone Follow-up, Case Closed 01-06-06		Human Error
4/14/05	05399910404	BPXA	y	Drill Site 9 (DS-9),	Methyl Alcohol (Methanol)	2	Phone Follow-up, Case Closed 01-06-06		Human Error
4/23/05	05399911301	BPXA	y	NGI,	Hydraulic Oil	2	Took Report, Case Closed 05-02-05		Seal Failure
5/2/05	05399912201	ASRC Energy Ser (formerly APC)	y	East Prudhoe Bay, DRILL SITE 17,	Corrosion Inhibitor	2	Took Report, Case Closed 05-04-05		External Factors
5/14/05	05399913403	BPXA	y	E PAD,	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 05-16-05		Gauge/Site Glass Failure
6/2/05	05399915301	BPXA	y	West Beach Pad,	Diesel	2	Took Report, Case Closed 06-06-05		Leak
7/20/05	05399920101	BPXA	y	Main Construction Camp (MCC),	Diesel	2	Took Report, Case Closed 07-22-05		Equipment Failure
7/22/05	05399920301	BPXA	y	Gathering Center 1 (GC-1),	Hydraulic Oil	2	Took Report, Case Closed 07-25-05		Gauge/Site Glass Failure
10/9/05	05399928201	BPXA	y	Well Pad B,	Hydraulic Oil	2	Took Report, Case Closed 10-12-05		Line Failure
11/17/05	05399932101	BPXA	y	W PAD,	Hydraulic Oil	2	Took Report, Case Closed 11-18-05		Line Failure
11/21/05	05399932502	BPXA	y	West Gas Injection,	Diesel	2	Phone Follow-up, Case Closed 12-12-05		Seal Failure
11/29/05	05399933301	ASRC Energy Ser (formerly APC)	y	Well Pad M,	Corrosion Inhibitor	2	Took Report, Case Closed 12-02-05		Equipment Failure
11/29/05	05399933302	BPXA	y	Flow Station 3 (FS-3),	Transmission Oil	2	Took Report, Case Closed 12-06-05		Seal Failure
12/8/05	05399934202	BPXA	y	Well Pad A,	Crude	2	Took Report, Case Closed 12-09-05		Valve Failure
12/21/05	05399935501	BPXA	y	Drill Site 7,	Diesel	2	Took Report, Case Closed 12-27-05		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/29/05	05399936301	BPXA	y	Well Pad S,	Hydraulic Oil	2	Took Report, Final Report 01-05-06		Line Failure
1/27/06	06399902703	BPXA	ym	CWTF/CSTF,	Diesel	2	Took Report, Case Closed 01-30-06		External Factors
1/31/06	06399903101	BPXA	y	West Gas Injection,	Diesel	2	Took Report, Case Closed 02-14-06		Leak
2/16/06	06399904702	Pioneer Natural Resources	ym	Lake PNRA0023,	Hydraulic Oil	2	Phone Follow-up, Case Closed 02-17-06		Line Failure
3/10/06	06399906902	BPXA	y	Gathering Center 2 (GC-2),	Diesel	2	Took Report, Case Closed 03-15-06		External Factors
3/13/06	06399907201	BPXA	y	Gathering Center 2 (GC-2),	Propylene Glycol	2	Took Report, Case Closed 03-15-06		Equipment Failure
3/18/06	06399907701	BPXA	y	Gathering Center 2 (GC-2),	Hydraulic Oil	2	Field Visit/s, Case Closed 08-31-06		Line Failure
3/30/06	06399908907	BPXA	y	West Prudhoe Bay, CC2A BALL MILL,	Crude	2	Took Report, Case Closed 04-03-06		Human Error
4/4/06	06399909403	BPXA	y	Drill Site 1 (DS-1),	Corrosion Inhibitor	2	Took Report, Case Closed 04-07-06		Corrosion
4/15/06	06399910501	ASRC Energy Ser (formerly APC)	y	Well Pad A,	Hydraulic Oil	2	Took Report, Case Closed 04-17-06		Line Failure
4/21/06	06399911104	ASRC Energy Ser (formerly APC)	ym	West Prudhoe Bay ACCESS ROAD,	Engine Lube Oil	2	Took Report, Case Closed 04-24-06		Equipment Failure
4/25/06	06399911501	ASRC Energy Ser (formerly APC)	y	Drill Site 14,	Engine Lube Oil	2	Took Report, Case Closed 04-27-06		Equipment Failure
4/26/06	06399911601	BPXA	y	Lisburne Production Center (LPC),	Sulfuric Acid	2	Phone Follow-up, Case Closed 05-01-06		Crack
5/6/06	06399912601	BPXA	y	Well Pad F,	Hydraulic Oil	2	Took Report, Case Closed 06-12-06		Line Failure
5/31/06	06399915101	BPXA	y	CGF,	Diesel	2	Phone Follow-up, Case Closed 06-29-06		Unknown
6/8/06	06399915903	BPXA	y	Drill Site 18,	Crude	2	Took Report, Case Closed 06-20-06		Equipment Failure
6/18/06	06399916901	BPXA	y	Flow Station 2 (FS-2),	Diesel	2	Phone Follow-up, Case Closed 07-24-06		Leak
7/9/06	06399919002	BPXA	y	Drill Site 13,	Diesel	2	Took Report, Case Closed 07-10-06		Human Error
7/13/06	06399919402	BPXA	y	Gathering Center 2 (GC-2),	Hydraulic Oil	2	Took Report, Case Closed 07-24-06		Leak
7/26/06	06399920701	BPXA	y	Drill Site 1 (DS-1),	Diesel	2	Took Report, Case Closed 08-07-06		Valve Failure
8/1/06	06399921301	BPXA	y	Grind & Injection (G&I) Facility,	Other	2	Phone Follow-up, Case Closed 08-04-06		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/10/06	06399922201	BPXA	y	Drill Site 1 (DS-1),	Engine Lube Oil	2	Took Report, Case Closed 08-16-06		Gauge/Site Glass Failure
8/26/06	06399923803	BPXA	y	Drill Site 7,	Crude	2	Took Report, Case Closed 09-14-06		Seal Failure
9/4/06	06399924703	BPXA	y	Well Pad X,	Diesel	2	Took Report, Complaint/Report Received 09-05-06		Line Failure
9/11/06	06399925402	VECO ALASKA	ym	Central Checkpoint,	Diesel	2	Took Report, Case Closed 09-15-06		Cargo Not Secured
9/11/06	06399925403	BPXA	y	Lisburne Production Center (LPC),	Crude	2	Took Report, Case Closed 09-14-06		Human Error
9/29/06	06399927204	BPXA	y	Drill Site 6,	Crude	2	Phone Follow-up, Complaint/Report Received 10-20-06		Equipment Failure
10/25/06	06399929801	BPXA	y	PAD 10,	Hydraulic Oil	2	Took Report, Case Closed 11-06-06		Line Failure
11/12/06	06399931601	BPXA	ym	Field Ops Center (FOC),	Diesel	2	Took Report, Case Closed 11-15-06		Equipment Failure
11/22/06	06399932601	BPXA	y	Central Gas Facility (CGF),	Hydrochloric Acid	2	Took Report, Case Closed 11-28-06		Cargo Not Secured
12/19/06	06399935304	ConocoPhillips Alaska	ym	CPAI Kuparuk Oliktok 12-acre staging pad,	Diesel	2	Took Report, Case Closed 12-21-06		Other
12/30/06	06399936403	BPXA	y	Drill Site 1 (DS-1),	Corrosion Inhibitor	2	Phone Follow-up, Case Closed 01-04-07		Equipment Failure
01/01/07	07399900101	BPXA	y	Drill Site 9 (DS-9),	Transmission Oil	2	Took Report, Complaint/Report Received 01-05-07		Seal Failure
01/10/07	07399901001	BPXA	y	Drill Site 18,	Engine Lube Oil	2	Took Report, Case Closed 01-22-07		Seal Failure
01/16/07	07399901602	BPXA	y	Point McIntyre #1,	Diesel	2	Took Report, Case Closed 02-05-07		Equipment Failure
01/21/07	07399902102	BPXA	y	Drill Site 11,	Diesel	2	Took Report, Case Closed 02-14-07		Human Error
01/22/07	07399902201	BPXA	y	FLEET SHOP, BP East Prudhoe Bay	Diesel	2	Took Report, Case Closed 02-09-07		Other
01/24/07	07399902401	BPXA	y	Drill Site 1 (DS-1),	Crude	2	Took Report, Complaint/Report Received 01-29-07		Human Error
01/25/07	07399902502	BPXA	y	Drill Site Maintenance, BP East Prudhoe Bay	Diesel	2	Phone Follow-up, Complaint/Report Received 01-29-07		Unknown
01/28/07	07399902804	BPXA	y	Drill Site 14 well 26, BP East Prudhoe Bay	Diesel	2	Phone Follow-up, Complaint/Report Received 01-30-07		Equipment Failure
02/07/07	07399903803	BPXA	y	Drill Site 14, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	2	Took Report, Case Closed 02-14-07		Valve Failure
02/11/07	07399904204	VECO ALASKA INC.	y	Drill Site 6, BP East Prudhoe Bay	Hydraulic Oil	2	Took Report, Case Closed 02-21-07		Equipment Failure
02/21/07	07399905202	BPXA	y	Drill Site 4, BP East Prudhoe Bay	Crude	2	Took Report, Complaint/Report Received 02-28-07		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
02/21/07	07399905203	BPXA	y	Skid 50, BP East Prudhoe Bay	Engine Lube Oil	2	Took Report, Complaint/Report Received 02-28-07		External Factors
03/02/07	07399906101	BPXA	y	POINT MCINTYRE, PM 2,	Diesel	2	Phone Follow-up, Case Closed 03-05-07		Valve Failure
03/08/07	07399906705	BPXA	y	Base Operation Center (BOC),	Diesel	2	Took Report, Case Closed 03-09-07		Seal Failure
03/14/07	07399907301	ASRC Energy Services	y	Well Pad K,	Hydraulic Oil	2	Took Report, Case Closed 03-15-07		Seal Failure
03/30/07	07399908903	BPXA	y	Drill Site 11,	Diesel	2	Took Report, Case Closed 04-05-07		Human Error
04/01/07	07399909101	BPXA	y	Well Pad G, BP West Prudhoe Bay	Crude	2	Took Report, Case Closed 04-03-07		Leak
04/03/07	07399909302	BPXA	y	East Prudhoe Bay, MCC, BP East Prudhoe Bay	Engine Lube Oil	2	Took Report, Case Closed 07-13-07		Equipment Failure
04/05/07	07399909502	ASRC Energy Services	y	East Prudhoe Bay, DRILL SITE 17, PB East Prudhoe Bay	Hydraulic Oil	2	Took Report, Case Closed 04-09-07		Line Failure
04/07/07	07399909702	ALASKA CLEAN SEAS	y	Central Gas Facility (CGF), BP East Prudhoe Bay	Engine Lube Oil	2	Took Report, Case Closed 07-16-07		Equipment Failure
04/18/07	07399910802	BPXA	y	Drill Site 2, BP East Prudhoe Bay	Crude	2	Took Report, Case Closed 04-23-07		Leak
04/23/07	07399911303	BPXA	y	Hot Water Plant, BP East Prudhoe Bay	Drilling Muds	2	Took Report, Case Closed 06-20-07		Leak
04/24/07	07399911403	BPXA	y	Gathering Center 2 (GC-2), BP West Prudhoe Bay	Propylene Glycol	2	Took Report, Case Closed 05-01-07		Other
05/04/07	07399912403	ALASKA INTERSTATE CONSTRUCTION	ym	West Prudhoe Bay,	Hydraulic Oil	2	Took Report, Case Closed 05-15-07		Line Failure
05/19/07	07399913904	BPXA	y	Cold Storage Pad/Bldg,	Engine Lube Oil	2	Took Report, Case Closed 07-13-07		Line Failure
06/17/07	07399916803	BPXA	ym	Access Road, BP East Prudhoe Bay	Engine Lube Oil	2	Took Report, Case Closed 06-20-07		Line Failure
07/09/07	07399919001	BPXA	y	Well Pad M,	Diesel	2	Took Report, Case Closed 08-03-07		Equipment Failure
07/10/07	07399919101	BPXA	y	Main Construction Camp (MCC),	Diesel	2	Took Report, Complaint/Report Received 07-15-07		Line Failure
07/16/07	07399919701	BPXA	y	Drill Site 15,	Crude	2	Took Report, Complaint/Report Received 07-17-07		Other
07/16/07	07399919702	BPXA	y	Lisburne Production Center (LPC),	Hydraulic Oil	2	Took Report, Complaint/Report Received 07-17-07		Equipment Failure
07/18/07	07399919901	BPXA	y	WEST DOCK ROAD,	Engine Lube Oil	2	Phone Follow-up, Case Closed 07-24-07		Line Failure
07/18/07	07399919902	BPXA	y	Well Pad F,	Corrosion Inhibitor	2	Took Report, Complaint/Report Received 07-18-07		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
07/18/07	07399919905	ASRC Energy Services	y	Gathering Center 1 (GC-1),	Corrosion Inhibitor	2	Took Report, Case Closed 08-09-07		Valve Failure
07/21/07	07399920201	ASRC Energy Ser (formerly APC)	y	MOWF STORES, BP West Prudhoe Bay	Emulsion Breaker	2	Took Report, Final Report 07-27-07		Other
09/10/07	07399925303	BPXA	y	Warm Storage, BP-East	Engine Lube Oil	2	Took Report, Case Closed 09-17-07		Other
09/21/07	07399926401	ASRC Energy Services	y	East Prudhoe Bay, DRILL SITE 17,	Corrosion Inhibitor	2	Took Report, Final Report 09-21-07		Valve Failure
10/01/07	07399927401	BPXA	Y	Gathering Center 2 (GC-2), Gathering Center 2 (GC-2)	Engine Lube Oil	2	Took Report, Complaint/Report Received 10-02-07		Other
10/02/07	07399927501	BPXA	Y	Main Construction Camp (MCC), Main Construction Camp (MCC)	Transmission Oil	2	Phone Follow-up, Case Closed 10-08-07		Other
11/07/07	07399931101	BPXA	Y	East Prudhoe Bay, East Prudhoe Bay	Hydraulic Oil	2	Took Report, Case Closed 11-14-07		Equipment Failure
11/21/07	07399932501	BPXA	Y	Drill Site 15, Drill Site 15	Crude	2	Took Report, Complaint/Report Received 11-27-07		Other
11/21/07	07399932502	BPXA	Y	Drill Site 4, Drill Site 4	Hydraulic Oil	2	Took Report, Complaint/Report Received 11-27-07		Valve Failure
02/07/07	07399903802	BPXA	y	East Prudhoe Bay, PBOC, BP East Prudhoe Bay	Hydraulic Oil	1.5	Took Report, Case Closed 02-14-07		Valve Failure
02/09/07	07399904002	BPXA	y	East Prudhoe Bay, DS 17, BP East Prudhoe Bay	Crude	1.5	Took Report, Interim Report 02-09-07		Equipment Failure
02/28/07	07399905901	BPXA	y	West Prudhoe Bay, BOC PAD, BP West Prudhoe Bay	Diesel	1.5	Took Report, Case Closed 03-09-07		Equipment Failure
03/04/07	07399906301	BPXA	y	Gathering Center 1 (GC-1),	Diesel	1.5	Took Report, Case Closed 03-06-07		Line Failure
05/30/07	07399915002	BPXA	y	L-2 pad,	Crude	1.5	Took Report, Case Closed 06-04-07		Leak
06/03/07	07399915401	BPXA	y	Well Pad A, BP West Prudhoe Bay	Crude	1.5	Took Report, Case Closed 06-11-07		Leak
07/02/07	07399918301	ASRC Energy Services	y	Flow Station 1 (FS-1),	Hydraulic Oil	1.5	Took Report, Complaint/Report Received 08-03-07		Line Failure
07/04/07	07399918501	BPXA	ym	West Prudhoe Bay ACCESS ROAD,	Hydraulic Oil	1.5	Took Report, Case Closed 07-12-07		Unknown
09/03/07	07399924601	Pioneer Natural Resources	ym	West North Slope, Kuparuk River Unit	Hydraulic Oil	1.5	Took Report, Case Closed 09-07-07		Seal Failure
09/03/07	07399924603	Pioneer Natural Resources	ym	West North Slope, Pioneer Natural Resources	Hydraulic Oil	1.5	Took Report, Complaint/Report Received 09-04-07		Seal Failure
09/17/07	07399926001	BPXA	y	FLEET SHOP, BP-East	Transmission Oil	1.5	Took Report, Complaint/Report Received 09-19-07		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
09/18/07	07399926101	BPXA	y	West Prudhoe Bay, BP, Well Pad E,	Diesel	1.5	Took Report, Complaint/Report Received 09-21-07		Equipment Failure
1/7/81	81360100701	ARCO Alaska, Inc.	m	East end of train, Not given.	Gasoline	1	Not given.	Not Given	Entered in RBase 9-25-89 from old records. Qty. 1/2 pint.
1/16/81	81360101603	Morrison-Knudsen	m	PBF/S11, T11N, R12E, Not given.	Hydraulic oil	1	Not given.	Not Given	Entered 9-25-89 from old records. Qty. 3 quarts.
2/1/81	81360103203	Sohio	y	GC 1, PBF, Not given	Engine lube oil	1	Not given.	Not Given	Entered 9-26-89 from old records.
3/29/81	81360108802	Sohio	y	GC 2, Prudhoe, Not given.	Crude	1	Not given.	Not Given	Entered 9-28-89 from old records. Follow up 4-6-81.
4/23/81	81360111301	Sohio	y	D Pad "Pingo", Not given.	Engine lube oil	1	Not given.	Not Given	Entered 10-25-89 from old records. Qty. 1/2 to 1 gal. Follow up date 5/18/81.
6/28/81	81360117901	Sohio	m	Sag well on pad, Not given.	Diesel	1	Not given.	Not Given	Entered 10-27-89 from old records. Qty. 1 quart. Follow up 10-5-81.
7/20/81	81360120101	ARCO Alaska, Inc.	y	DS 7 Well 4, 10 x 10 ft on gravel pad	Crude	1	Absorbents used, gravel turned. pads to nsb incinerator.	Incinerated	Entered 10-30-89 from old records. Qty. 1 quart.
9/9/81	81360125202	Sohio	m	Sag Delta 7, Endeavor Island, Not given.	Engine lube oil	1	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8-81.
10/11/81	81360128401	Sohio	y	GC 3, Skid 7, Not given.	Engine lube oil	1	Not given.	Not Given	Entered 2-1-90 from old records. Follow up 11-6-81.
10/11/81	81360128402	Sohio	y	GC 2, Skid 7, Not given.	Diesel	1	Not given.	Not Given	Entered 2-1-90 from old records. Follow up 11-6-81.
4/28/83	83360111802	ARCO Alaska, Inc.	y	DS 12 & 13, Prudhoe Bay, None	Crude	1	Crude bladed in gravel.	Padspread	Entered from old records 6/25/90.
4/28/83	83360111803	ARCO Alaska, Inc.	y	DS 18-2, Prudhoe Bay, None	Crude	1	Crude bladed in gravel.	Padspread	Entered from old records 6/25/90.
4/28/83	83360111804	ARCO Alaska, Inc.	y	DS 18-7, Prudhoe Bay, None	Crude	1	Crude bladed in gravel.	Padspread	Entered from old records 6/25/90.
10/5/83	83360127801	SOHIO	y	East Dock Exp. Facility, None	Diesel	1	Sorbents	Unknown	Also report on 11/8/83. Entered from old record 7/10/83.
3/21/85	85360108003	Texaco	m	Ice Road,	Unknown	1	Contaminated snow removed, sorbents	Incinerated	
5/26/85	85360114601	Unkown	y	ARCO East Dock,	Engine lube oil	1	Ice, snow removed to bags		
1/21/86	86360102102	ARCO Alaska, Inc.	y	DS 11,	Crude	1	Scraped up		
2/20/86	86360105101	Sohio Alaska Petroleum Company	y	GC-1 Ullage Tank,	Crude	1	Picked up with morooka		
6/1/86	86360115203	ARCO Alaska, Inc.	y	C Pad,	Hydraulic oil	1	Soaked up with sorbents	Incinerated	
6/16/86	86360116701	ARCO Alaska, Inc.	y	DS 9,	Crude	1	Soaked up with sorbents	Not Given	
6/21/86	86360114102	ARCO Alaska, Inc.	y	Central Laboratory, Prudhoe,	Degreaser	1	Scraped up contaminated gravel	Approved Landfill	
6/25/86	86360917601	ARCO Alaska, Inc.	y	Central Laboratory Facility,	Mercury	1	Shoveled up dirt and mercury	Interim Containment	*port out of state as hazardous waste.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/6/87	87360109601	ARCO Alaska, Inc.	y	DS 9,	Crude	1	Contaminants scraped up	Recycled	
5/16/87	87360113601	ARCO Alaska, Inc.	y/m	On Sag River,	Diesel	1	Contaminanted ice scraped up	Recycled	
6/25/87	87360117602	ARCO Alaska, Inc.	y	DS 3, Well 12,	Diesel	1	Soaked up with sorbents-contaminants scraped up	Incinerated	
6/25/87	87360117603	ARCO Alaska, Inc.	y	DS 3, Well 18,	Diesel	1	Contaminants scraped up	Recycled	
6/28/87	87360117902	ARCO Alaska, Inc.	y	DS 16,	Diesel	1	Contaminants scraped up	Padspred	
6/28/87	87360117904	ARCO Alaska, Inc.	y	Telecommunications Building, Area around telecommunication building at PB	Motor oil	1	Contaminants scraped up	Padspred	
1/28/88	88360102804	ARCO Alaska, Inc.	y	DS 18,	Hydraulic oil	1	Contaminants scraped up	Incinerated	
3/3/88	88360106301	ARCO Alaska, Inc.	y	DS 2, Well 10, Area around leaking line	Crude	1	Soaked up with sorbents	Incinerated	
3/31/88	88360109101	Standard Alaska Production Com	y	East Side, Module 301,	Engine lube oil	1	Contaminants scraped up	Approved Landfill	
4/3/88	88360109402	ARCO Alaska, Inc.	y	C Pad,	Hydraulic oil	1	Soaked up with sorbents - contaminants scraped up	Incinerated	Leaking transmission line.
5/19/88	88360114003	ARCO Alaska, Inc.	y	DS 7,	Hydraulic oil	1	Contaminants scraped up	Approved Landfill	
5/25/88	88360114603	ARCO Alaska, Inc.	y	DS 16, Well 7,	Crude	1	Soaked up with sorbents/contaminants scraped up	Incinerated	
6/15/88	88360116709	VECO	m	Old Northern Oilfield Camp, on gravel	Diesel	1	Excavating gravel/replacing with clean material	Incineration/approved Landfill	Seepage from apparently damaged pit liner under fuel dock
6/22/88	88360117401	ARCO Alaska, Inc.	y	COTU,	Diesel	1	Used sorbents and picked up gravel	Other	Option Code: 1 (incinerated) and 2 (approved landfill)
6/26/88	88360117805	ARCO Alaska, Inc.	y	DS 1, Well 8,	Hydraulic oil	1	In lined pit on gravel pad absorbents used.	Incinerated	Cause: drum leak
7/8/88	88360119001	ARCO Alaska, Inc.	y	Hot Water Plant, Gasket on temperature gauge on transformer failed	Transformer oil	1	Shoveled contam gravel into plastic bags	Incinerated	
7/11/88	88360119306	Standard Alaska Production Com	m	End of 241 Piperack, contained	Crude	1	Removed oily gravel		only 1/2 pint spilled
7/17/88	88360119903	ARCO Alaska, Inc.	y	COTU, contained on pad	Paint	1	Contaminated gravel and material picked up	Approved Landfill	bucket of paint fellof back of truck
7/28/88	88360121001	ARCO Alaska, Inc.	y	DS 3, Well 24, contained on pad	Diesel	1	Used absorbents and raked gravel into pad	Incinerated	split through top of grease head because not enough pressure on head

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/29/88	88360121102	ARCO Alaska, Inc.	y	CGF, Drain Pit, three square foot area on tundra near drain pit	Diesel	1	Absorbents/vac truck	Multiple/see Comments	
7/31/88	88360121302	ARCO Alaska, Inc.	y	PBOC Central Lab, contained on pad	Xylene	1	Absorbents/gravel scooped up	Other	55 gal drum stored horizontally with threaded safety spigot began leak
8/4/88	88360121704	ARCO Alaska, Inc.	y	DS L4, Vent Line pit, contained on gravel	Diesel	1	Gravel removed from dike wall	Approved Landfill	called to recorder 8/8/88
8/15/88	88360122803	ARCO Alaska, Inc.	y	COTU, contained on pad	Diesel	1	Loader used to remove contaminated gravel	Approved Landfill	overfilled heater fuel tank during delivery
8/16/88	88360122906	ARCO Alaska, Inc.	y	ARCO Ak Seawater Treatment Pl., 100 square foot sheen on water	Diesel	1	Contaminated gravel removed	Unknown	mix 99% seawater, 1% diesel. 42 gal discharged to land, 4 to water.
8/17/88	88360123004	ARCO Alaska, Inc.	y	C-Pad, contained on pad	Crude	1	Gravel and material shoveled up and removed		piece of pipe was in storage
9/6/88	88360125003	SAPC Endicott	m	305 Chemical Load Station, not given	Emulsion breaker	1	Absorbents	Approved Landfill	operator rolling up transfer hose, liquid spilled into catch basin
9/7/88	88360125102	ARCO Alaska, Inc.	y	DS 16, Well 11, contained on pad	Diesel, condensate	1	Graded into pad		Mist carry over from bleed tank.
9/8/88	88360125202	ARCO Alaska, Inc.	y	COTU fuel dock, contained on pad	Diesel	1	Used absorbents, raked gravel	Incinerated	
9/14/88	88360125804	ARCO Alaska, Inc.	y	MCC Fuel depot, contained on pad	Diesel	1	Absorbents and hand shovel	Incinerated	
9/17/88	88360126104	ARCO Alaska, Inc.	y	STP facility, contained on pad	Antifreeze	1	Absorbents, gravel placed in bags	Dumpster	Cooling system boilover.
10/16/88	88360129004	SAPC Endicott	m	module 605, not given	Diesel	1	Contaminated snow to melt tank	Other	clogged sight vent, inaccurate level indicated, tank overfilled
10/22/88	88360129601	ARCO Alaska, Inc.	y	Airport Hanger, contained on pad	Hydraulic oil	1	Shoveled snow into plastic bags	Approved Landfill	relief valve released fluid when lift gate lowered
10/25/88	88360129904	SAPC Endicott	m	not given, snow and gravel	Gasoline	1	Gravel, snow scooped up	Approved Landfill	faulty dispensing nozzle on fuel pump
10/26/88	88360130007	SAPC Endicott	m	U-305, not given	Emulsion breaker	1	Shoveled up contaminated snow	Approved Landfill	during chemical unloading, driver removed hose, residual leaked
11/14/88	88360131901	ARCO Alaska, Inc.	y	NGI, contained on pad	Crude	1	Absorbents for material; hand shovels for snow	Incinerated	hose ruptured during bleed-down of annulus
11/18/88	88360132302	ARCO Alaska, Inc.	y	COTU, contained on pad	Engine lube oil	1	Snow picked up with shovels	Recycled	leaking head gasket on portable heater unit
11/27/88	88360133201	ARCO Alaska, Inc.	y	CCP, contained on pad	Engine lube oil	1	Handshovels removed contaminated snow/material	Approved Landfill	seal oil trap malfunction caused material to spray from vent
12/2/88	88360133703	SAPC Endicott	m	ARCO Fuel Docks, contained on pad	Diesel	1	Material shoveled up, put into dumpster	Approved Landfill	compartment overtopped while loading
12/22/88	88360135705	SAPC Endicott	y	B-Pad Relief Pit, crude dusted top of snow	Crude	1	Mist swept up by brooms, bagged	Incinerated	shut down at GC-3, rupture disc opened to relieve pressure
12/26/88	88360136104	SAPC Endicott	m	Fuel Pumps, contained on pad	Diesel	1	Material scraped up, removed	Recycled	careless fueling procedures by unknown individual

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/9/89	89360100902	ARCO Alaska, Inc.	y	Seawater Treatment Plant, contained on snow covered gravel pad	Antifreeze	1	Mixed with snow and placed in module sump	Recycled	Cooling system problem caused glycol to boil and spray out of radiator cap
1/15/89	89360101503	ARCO Alaska, Inc.	y	Pipeline Access Rd. South of FS 2, contained on pad	Hydraulic oil	1	Hand shovels used to pick up contaminated snow. taken to nsb incinerator	Incinerated	Hydraulic line on crane broke.
1/15/89	89360101504	ARCO Alaska, Inc.	y	Pipeline Access Rd. South of FS 2, contained on pad	Hydraulic oil	1	Hand shovels used to pick up contaminated snow. taken to nsb incinerator	Incinerated	Hydraulic line on crane broke.
2/4/89	89360103501	ARCO Alaska, Inc.	y	DS 14, relief pit, North end of pad	Crude	1	Handshovels used to remove material and con. snow		while depressurizing separator, vented to flare & wind blew onto snow
2/15/89	89360104602	ARCO Alaska, Inc.	y	FS 2, Common line 9A, contained on pad	Seawater	1	Handshovels removed material and snow	Approved Landfill	hydrotesting line, material leaked from connection
2/20/89	89360105007	ARCO Alaska, Inc.	y	DS 9, contained on pad	Hydraulic oil	1	Loader removed fluid and snow	Approved Landfill	hose failure on snow blower
2/28/89	89360105902	ARCO Alaska, Inc.	y	DS 6, Well 14, contained on pad	Diesel	1	Loader picked up snow and material. taken to nsb landfill.	Approved Landfill	mix 98% water, 1% diesel, 1% soot. high winds plugged exhaust.
3/5/89	89360106403	ARCO Alaska, Inc.	y	DS 13, Well 8, contained on pad.	Crude	1	Loader used to remove material and snow. taken to pad 3	Approved Landfill	During wireline operation, material sprayed from a tank relief port onto pad.
3/11/89	89360107001	BPXA	y	24" valve at confluence of W and Z flowlines, contained in snow under valve	Crude	1	Snow scraped up with shovels, taken to melter for recovery	Recycled	oil seeped through valve body bleed.
4/2/89	89360109204	Otis Engineering	y	DS 1-9, not given	Antifreeze	1	Picked up material and ran through recycling machine in shop.	Recycled	Mixture 50% glycol, 50% water discharged from electric line truck.
4/5/89	89360109503	ARCO Alaska, Inc.	y	DS 18, Well 15, Contained on snow on pad	Crude	1	Loader scraped up material. taken to pad 3 oily waste pit.	Approved Landfill	Needle valve had ice plug. When plug thawed, valve opened and spilled material.
4/9/89	89360109901	ARCO Alaska, Inc.	y	Central Gas Facility, Contained on snow pack	Diesel	1	Hand shovels used to scrape up contaminated snow, absorbents for fluid. snow melted, injected pad 3, sorbents to nsb incinerator.	Multiple	Mixture 50% diesel, 50% lube oil leaked from machinery in EMD module.
4/16/89	89360110602	Western Geophysical Co.	y	ARCO Crude Oil Topping Plant, Prudhoe, Snow pack/ice surface	Diesel	1	Absorbents and shovels used. absorbents and snow incinerated.	Incinerated	Spill reported to Zenith 9300 number, rec'd by Anchorage Troopers on weekend.
5/2/89	89360112301	ARCO Alaska, Inc.	y	L5 Wellhouse 25, contained on snow on pad	Crude	1	Material floating on water, absorbents used. absorbents taken to nsb incinerator.	Incinerated	Mixture 50% crude, 50% diesel spilled when threaded pipe loosened and leaked.
5/11/89	89360113101	ARCO Alaska, Inc.	y	DS 14 snowmelter, contained on pad	Crude	1	Loader used, material and snow taken to pad 3 for disposal.	Approved Landfill	Mixture water and crude. While restarting snowmelter, air trapped under snow/ice, heated up and sprayed onto pad.
5/14/89	89360113401	ARCO Alaska, Inc.	y	DS 4 Manifold bldg, contained in snow on pad	Crude	1	Hand shovels used. recycled at ds 4	Recycled	Discharge hose came out of barrel while bleeding down well.
5/29/89	89360114902	ARCO Alaska, Inc.	y	DS L5, Well 36, contained on pad	Crude	1	Sorbents used, taken to nsb incinerator	Incinerated	Mixture 50-50 diesel and crude. Injection line dripped during work on injection line.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/30/89	89360115004	ARCO Alaska, Inc.	y	C/D Warehouse Storage Yard, contained on pad	Other	1	Sorbents used, bagged, placed in nsb incinerator dumpster. will be incinerated at nsb incin. in deadhorse.	Incinerated	Anti-Foulant released when drum with loose bung leaked.
6/5/89	89360115604	ARCO Alaska, Inc.	m	Not Given, Not given	Antifreeze	1	Not given	Not Given	On recorder, information very sketchy.
6/14/89	89360116502	BPXA	y	C Pad Well 31, contained on pad	Crude	1	Absorbents used, gravel removed. sorbents to incinerator, gravel to a3w2	Multiple	Open bbl of crude on pad leaked because of overfilling.
6/14/89	89360116505	Halliburton Logging	m	West Southwest of bldg, 2555 Spine Rd. Prudhoe, tundra	Other	1	Absorbents used on tundra, snow removed. absorbent booms around area. all absorbents bagged, taken to nsb ow pit.	Approved Landfill	Sheen observed on water, coming from snow pile on tundra. Snow was from winter removals.
6/21/89	89360117207	ARCO Alaska, Inc.	m	CWCC Pad by warehouse, contained on pad	Hydraulic oil	1	Absorbents and hand shovels used. small amount of gravel incinerated with absorbents.	Incinerated	Material leaked from fill port due to expansion of liquid within tank.
6/23/89	89360117404	ARCO Alaska, Inc.	y	DS 16, Slight sheen on tundra in puddles	Other	1	Absorbents used to soak up material on pond and edge of pad. taken to nsb incinerator.	Incinerated	Unknown hydrocarbon observed on snowmelt water which presented slight sheen as it melted toward pond. Area has been inspected since cleanup and no contamination has been observed.
6/28/89	89360117905	ARCO Alaska, Inc.	y	FS 2, produced water tank 1981, contained on pad	Seawater	1	Absorbents used, taken to nsb incinerator.	Incinerated	Tank valve's packing leaked while filling tank.
6/29/89	89360118005	ARCO Alaska, Inc.	y	DS 9, Contained on pad	Diesel	1	Absorbents used, taken to nsb incinerator.	Incinerated	Fuel tank on emergency generator overflowed due to thermal expansion.
7/4/89	89360118502	BPXA	m	.5 mi south of bridge, Small sheen on pond.	Diesel	1	Absorbent pads used, gravel removed. gravel washed, liquids injected.	Subsurface Injection	Suspected from Pool Arctic vehicle #A-19 that left road and rolled on 3/28/89. Area will be monitored for leaching.
7/14/89	89360119503	ARCO Alaska, Inc.	y	COTU diesel pumps, contained on pad	Diesel	1	Absorbents used, taken to nsb incinerator.	Incinerated	Filler hose did not automatically shut off.
7/21/89	89360120202	VECO	m	Bulk Diesel Loading Facility, Gravel	Diesel	1	Absorbents used, shoveled up gravel. materials taken to drip tank for solid waste disposal.	Approved Landfill	Fitting leaking on vacuum truck.
7/25/89	89360120601	Halliburton Logging Services	m	2555 Spine Road, 1 sq. yd. gravel	Diesel	1	Gravel removed, taken to nsb landfill	Approved Landfill	Tank on mast truck overfilled. Spill less than one quart.
7/25/89	89360120602	Pool Arctic Alaska	y	DS 3, contained on pad	Other	1	Contaminated area dug up and disposed of at sowp.	Approved Landfill	Product oil and rig lube; cause oil drip.
7/26/89	89360120705	ARCO Alaska, Inc.	y	C Pad, central warehouse., Contained on pad	Corrosion inhibitor	1	Absorbents used, bagged, taken to nsb incinerator.	Incinerated	C2367 corrosion inhibitor spilled while pumping from storage tank to treatment truck.
8/1/89	89360121301	ARCO Alaska, Inc.	y	CCP, contained in puddle on pad	Hydraulic oil	1	Absorbents used, taken to nsb incinerator.	Incinerated	Material sprayed from ruptured hose on loader.
8/6/89	89360121801	ARCO Alaska, Inc.	y	DS 4, contained on gravel	Corrosion inhibitor	1	Shoveled into 5 gallon buckets, taken to nsb sowp.	Approved Landfill	Material leaked from threaded connection on tank fill line.
9/3/89	89360124603	Camco	y	DS 17-11, contained on pad	Crude	1	Absorbents used, placed in special dumpster at field maintenance facility	Approved Landfill	While bleeding lubricator, gas forced oil spray out of vent.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/10/89	89360125301	ARCO Alaska, Inc.	y	DS 4, Well 22, contained on pad	Crude	1	Absorbents used, taken to nsb incinerator, gravel removed, taken to sowp.	Multiple	Leaking valve and bull plug.
9/18/89	89360126102	ARCO Alaska, Inc.	y	DS 18 Well 3, contained on water puddle on pad	Crude	1	Super sucker removed oil and water. taken to pad 3 for disposal.	Approved Landfill	Drained out of suction hose when disconnected.
9/21/89	89360126401	ARCO Alaska, Inc.	y	DS 6, Well 8, Contained on pad.	Diesel	1	Gravel removed to cutting box-to be taken to nsb sowp.	Interim Containment	White plant leaking diesel on gravel pad.
10/3/89	89360127604	ARCO Alaska, Inc.	y	DS 14, manifold building, Contained on pad	Crude	1	Gravel bagged, taken to nsb landfill.	Approved Landfill	Oil spilled from handling hose after sucking operation.
10/5/89	89360127802	ARCO Alaska, Inc.	y	Pad 10, methanol storage tank, Contained on pad.	Methanol	1	Absorbents used, taken to burnable dumpster.	Incinerated	Valve in discharge hose not completely shut.
10/9/89	89360128201	ARCO Alaska, Inc.	y	FS 1 Slop oil tank, Contained on pad.	Crude	1	Gravel removed by super sucker, taken to nsb landfill.	Approved Landfill	Material leaked from packing on tank agitator during transfer.
10/10/89	89360128301	ARCO Alaska, Inc.	y	PBOC shop gravel pad, Contained on gravel pad.	Hydraulic oil	1	Absorbents used, taken to nsb incinerator.	Incinerated	
10/18/89	89360129101	ARCO Alaska, Inc.	y	DS 3, Well 9, Contained on pad	Corrosion inhibitor	1	Absorbents used, gravel removed with shovels. sorbents to burnable dumpster, gravel to nsb sowp.	Multiple	Fitting on line loosened allowing #2367 corrosion inhibitor to leak to pad.
11/3/89	89360130701	ARCO Alaska, Inc.	y	Road from L3 to Surfcote Pad, Contained on gravel.	Unknown	1	Bladed into road.	None Required	Security guard found trail on road believed to be diesel.
11/4/89	89360130801	CAMCO	y	L3-24, Contained on pad 5' x 10' area	Diesel	1	Shoveled up snow and gravel, bagged and took to ow dumpster.	Approved Landfill	Mixture 50-50 diesell/crude spilled when wrong needle valve opened.
11/19/89	89360132303	ARCO Alaska, Inc.	y	DS 3 Well 1, Contained on pad	Crude	1	Snow removed, bagged, taken to burnable dumpster.	Incinerated	While bleeding annulus to slop trailer, hose fitting leaked.
11/30/89	89360133403	ARCO Alaska, Inc.	y	DS 9 Well 11, Contained on pad	Diesel	1	Gravel/snow removed, taken to nsb sowp.	Approved Landfill	Drive line on tractor broke causing U-joint to knock hole in tank.
12/7/89	89360134101	BPXA	y	D Pad, Well 27, Contained on pad	Crude	1	Collected snow with bucket loader, took to snow melter.	Interim Containment	O ring failure.
12/8/89	89360134203	ARCO Alaska, Inc.	y	COTU, Contained on snow on pad	Diesel	1	Absorbents, buckets used. material taken to nsb incinerator.	Incinerated	While fueling vehicle, internal valve failed, causing overflow.
12/17/89	89360135103	ARCO Alaska, Inc.	y	DS 2 Well 23, Contained on pad	Hydraulic oil	1	Snow removed, taken to slop trailer for eventual recycle.	Recycled	During retraction of hose, valve opened.
12/17/89	89360135104	ARCO Alaska, Inc.	y	DS 5 Well 27, Contained on pad	Crude	1	Snow removed, taken to pad 3, melted, injected.	Subsurface Injection	95% snowmelt, 5% crude spilled after startup of new well when snowmelt in wellhouse cellar overflowed.
12/24/89	89360135804	BPXA	y	BOC Fuel Pumps, Contained on pad	Gasoline	1	Material removed with shovel. taken to nsb incinerator. no gravel removed.	Incinerated	Nozzle shut-off froze and malfunctioned.
1/6/90	90360900602	ARCO Alaska, Inc.	y	DS Maintenance Yard, 12 x 12 ft area	Other	1	Loader used, material taken to snow melter, then to pad 3.	Subsurface Injection	Product spilled 99.6% fresh water, .4% viazan gel spilled when loader vibrated hose loose which caused fluid to discharge onto pad. Totalqty. 41 gal water, less than 1 gal viazan.
1/17/90	90360101702	BPXA	y/m	Sante Fe Pad, Contained on pad	Engine lube oil	1	Absorbents used, ice/snow removed, taken to nsb incinerator.	Incinerated	
1/21/90	90360102102	ARCO Alaska, Inc.	m	East check point near DS 1., Contained on pad	Crude	1	Hand shovels used, melted, injected at pad 3.	Subsurface Injection	Material sloshed out of vent while truck stopping/starting.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/21/90	90360102104	BPXA	y	CGF Line Rd., Contained on roadway.	Hydraulic oil	1	Sorbents used, remainder shoveled up. taken to nsb incinerator/a3w2 for recovery,	Incineration/approved Landfill	
1/21/90	90360102110	BPXA	y	C Pad CGF Line Road, Contained on roadway	Hydraulic oil	1	Absorbents used, shoveled up remainder contaminant. sorbents to nsb incinerator, contaminants to a3w2 melt tank for recovery.	Multiple	Hydraulic tank leaked 1/2 gal.
1/23/90	90360902301	ARCO Alaska, Inc.	y	DS 16, Gravel pad	Corrosion inhibitor	1	Shoveled snow, gravel, took to nsb sowp.	Approved Landfill	Drylock fitting leaked C-3554.
1/29/90	90360102903	BPXA	y/m	Sante Fe Pad, Contained on pad	Hydraulic oil	1	Fluid, ice, snow shoveled into bags, dumped into indoor melter at a3w2.	Recycled	Equipment seepage of hydraulic/lube oil while parked.
2/13/90	90360104403	ARCO Alaska, Inc.	y	LPC Module 4984, Contained on snow on pad	Crude	1	Hand shovels used, will recycle.	Recycled	Level controller failure caused venting to pad. 80% water, 10% crude, 10% diesel for total volume of 5 gallons.
2/14/90	90360104502	BPXA	y	CGF ice road, Ice road surface.	Transmission oil	1	Ice chipped and bagged. put into a3w2 melter for recovery.	Recycled	Qty. 1 pint.
2/15/90	90360104604	Dowell Schlumberger	y	L4 Well 31, Surface snow	Diesel	1	Loader removed contaminated snow, placed in waste oil barrel at ds shop.	Interim Containment	Crude/diesel came out of well on logging cable.
2/15/90	90360904602	ARCO Alaska, Inc.	y	DS 16 Well 14, Contained on snow covered gravel pad	Antifreeze	1	Hand shovels picked up material, placed into drip pan. will reuse as hydrotest fluid.	Recycled	Header hose split.
2/24/90	90360905501	ARCO Alaska, Inc.	y	COTU, Contained on pad	Corrosion inhibitor	1	Snow removed with shovels, melted and reused.	Recycled	Thermal expansion within holding tank caused discharge from vent.
2/26/90	90360905701	ARCO Alaska, Inc.	y	DS 17 Well 8, Contained on snow	Antifreeze	1	Handshovels removed snow, melted, reused as freeze protect.	Recycled	60% glycol, 40% water overflowed when radiator overheated.
2/27/90	90360105801	ARCO Alaska, Inc.	y	DS 9, Contained on snow on pad	Hydraulic oil	1	Hand shovels, absorbents used. bagged, taken to nsb incinerator.	Incinerated	
3/1/90	90360106003	CONOCO	y	G Pad ice road, surface ice	Engine lube oil	1	Absorbents used, shovels. bagged, taken to dumpster for incineration.	Incinerated	Engine blew spilling 5 qts.
3/2/90	90360106103	BPXA	m	Pad 1 various locations, Contained on pad in parking lots	Engine lube oil	1	Shoveled up, bagged, incinerated.	Incinerated	Small quantities of engine oil, antifreeze leaked from vehicles in camp parking lots.
3/10/90	90360106901	H.C. Price	m	60 Inch GNX Pipeline Ice Road between Oxbow & Put Rivers, Snow and ice	Engine lube oil	1	Shoveled up, bagged, taken to burnable dumpster.	Incinerated	Oil lines on truck engine malfunctioned.
3/11/90	90360107001	ARCO Alaska, Inc.	m	West Camp Bullrail, Contained on pad	Engine lube oil	1	Scooped snow, taken to snow melter. oils recycled, water injected at cpf 1.	Multiple	Vehicle leaks.
3/15/90	90360907403	BPXA	m	Various Pads, Contained on pad	Antifreeze	1	Material cleaned up, bagged. burned in camp incinerator.	Incinerated	Vehicles parked at campsites. Mixtures antifreeze, ATF, lube oil, qty. 3 pints.
3/22/90	90360108105	BPXA	y	PBU-WOA Pad, Seismic Camp, None evident	Engine lube oil	1	Snow scraped up with shovels, snow incinerated at camp.	Incinerated	Fluids leaked from engine while parked overnight.
3/23/90	90360108202	ARCO Alaska, Inc.	y	DS 1 Well 25, Contained on pad	Crude	1	Cleaned up, taken to pad 3 for injection.	Subsurface Injection	Employee found mist next to slop oil trailer. Believe tank discharged through vent.
3/24/90	90360108302	ARCO Alaska, Inc.	y	DS 7 Well 7, Contained on pad	Crude	1	Snow removed, injected at pad 3.	Subsurface Injection	Grease fitting on well head leaked, misted onto snow.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/27/90	90360108601	BPXA	y	GC 2, Contained in snow on road	Engine lube oil	1	Snow removed, melted at a3w2, recycled.	Recycled	Leak from idling equipment.
3/28/90	90360108702	BPXA	y	Well Slot 1-31, Contained on pad	Diesel	1	Scraped up snow, placed in melt down tank.	Interim Containment	3/8 inch tubing cap on gas lift corrosion inhibitor line leaking.
4/11/90	90360110102	ARCO Alaska, Inc.	y	DS 3 Well 13, Contained on snow on pad.	Crude	1	Absorbents used. taken to nsb incinerator.	Incinerated	50% seawater, 50% crude (total qty 2 gal) spilled due to faulty sump pump.
4/12/90	90360110204	H.C. Price	y	Ice Road DS 2 Access to Lisburne, Ice road	Engine lube oil	1	Area shoveled up, bagged, put in burnable dumpster.	Incinerated	
4/16/90	90360110603	ARCO Alaska, Inc.	y	Mine Site C, Contained within mine site	Engine lube oil	1	Absorbents used, bagged, put in nsb burnable dumpster.	Incinerated	1 oz. engine oil dripped from generator drip pan.
4/28/90	90360111801	BPXA	y	Pad A Skid 92, Contained on pad	Crude	1	Puddles vacuumed up, snow removed, taken to t pad sw pit for future recovery.	Recycled	Mixture produced water and crude spilled when packing blew out of valve.
4/28/90	90360911801	BPXA	y	PBU-WOA Seismic Camp, Snow	Antifreeze	1	Shovels removed contaminated snow, burned at seismic camp.	Incinerated	Vehicle leaks from overnight parking.
4/28/90	90360911901	ARCO Alaska, Inc.	y	DS L5 access road, Contained on pad	Antifreeze	1	Loader removed material, snow, gravel. all taken to pad 3 class 1 temp storage pit.	Interim Containment	While moving rig onto pad.
4/29/90	90360912001	H.C. Price	y	West Dock Rd. 1/2 mi. S. of Oxbow intersection, Contained on road	Acid	1	Gravel/acid shoveled into bags, stored in drum. following neutralization and lead toxicity test, gravel used on rr crossing.	Recycled	Battery fell from bus, broke apart on road.
4/30/90	90360912002	ARCO Alaska, Inc.	y	DS 17 outside manifold bldg., Contained on pad	Antifreeze	1	Shovels removed snow, some gravel. put in pad 3 class 2 temp storage pit.	Interim Containment	Operator found area where vehicle had leaked.
5/4/90	90360912402	BPXA	m	70 03 21.44W; 146 25 01.57N, Contained in snow	Transmission oil	1	Snow removed with shovels, placed in camp incinerator.	Incinerated	Material A.T.F. leaked from under vehicles parked at camp locations.
5/8/90	90360112801	ARCO Alaska, Inc.	y	LPC, Contained on snow and gravel	Crude	1	Loader used. material taken to pad 3.	Approved Landfill	While off loading material, pressured up, vent discharged.
5/10/90	90360913001	BPXA	m	Various parking sites, Snow on parking areas	Antifreeze	1	Snow shoveled into bags, burned in camp incinerators.	Incinerated	Fluid mixture of antifreeze, A.T.F., lube oil leaked from parked vehicles. Sonics Exploration handled cleanup. Belly pans lined with pads to prevent recurrence.
5/15/90	90360113503	BPXA	y	WOA Pad, Seismic Camp, Not given	Engine lube oil	1	Snow scraped up with shovels, incinerated at seismic camp.	Incinerated	Fluid leaked while vehicle parked overnight.
5/15/90	90360913501	ARCO Alaska, Inc.	y	DS 17 Manifold Bldg., Contained on pad	Corrosion inhibitor	1	Absorbents used, nsb incinerator.	Incinerated	Thermal expansion caused overflow of C 129.
5/16/90	90360113602	H. C. Price	y	FS 1 near PI 19 A, Gravel road	Hydraulic oil	1	Gravel removed, placed in drum. will advise of disposal later.	Not Given	Leaking crane.
5/17/90	90360913701	C. B. Trucking	y	South should Spine Rd, 1/2 mi. East BP Pad Z, Gravel	Other	1	Absorbents, shovels used. snow, ice, gravel, pads placed in overpack drum. leaking drum also put in overpack. conoco placed in temp storage berm.	Interim Containment	2 drums acetone fell off truck. When driver became aware and went back, BP had cleaned up. Drums were being delivered to Conoco, so they called ADEC.
5/28/90	90360114802	ARCO Alaska, Inc.	y	DS 17 Well 12, Gravel pad	Crude	1	Absorbents and super sucker used,taken to pad 3.	Approved Landfill	Flare operation mishap.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/13/90	90360116404	BPXA	y	West Dock, No tundra or water	Engine lube oil	1	Manta-ray skimmer used. dirty water to gc 1 tank.	Interim Containment	Material pushed off dock during snow removal. Noticed sheen on water adjacent to West Dock. Tracked to snow removal site.
6/17/90	90360116801	ARCO Alaska, Inc.	y	DS 4 Portable light plant, Contained on pad	Diesel	1	Gravel removed, taken to pad 3.	Approved Landfill	Bolt on engine failed due to vibration.
6/21/90	90360117201	BPXA	m	Fuel pumps, Contained on pad	Diesel	1	Scalped gravel, placed in oily gravel disposal area.	Approved Landfill	Likely cause overtopping.
7/10/90	90360119101	ARCO Alaska, Inc.	y	DS 14 Well 34 Gravel Pad, Gravel Pad	Crude	1	Absorbents, handshovels used. absorbents to nsb incin., gravel to pad 3.	Incineration/approved Landfill	Material sprayed from vent due to valve blockage.
7/13/90	90360919401	ARCO Alaska, Inc.	y	DS 14 Well 19, Contained on pad	Antifreeze	1	Shovel removed material and gravel. put in drums, disposal to be decided later.	Unknown	Radiator leak on triplex pump.
7/15/90	90360919601	ARCO Alaska, Inc.	y	Mine site C and access road, Gravel	Antifreeze	1	Shoveled 1 yd up, bagged. taken to nsb burnable dumpster.	Incinerated	Rock punctured vehicle radiator.
7/17/90	90360119801	ARCO Alaska, Inc.	y	DS 5 Well 8 SW of pad off edge, Gravel pad	Engine lube oil	1	Hand shovels removed gravel, taken to pad 3 sowp.	Approved Landfill	Unknown weathered spill, possibly lube or hydraulic oil.
8/2/90	90360921401	ARCO Alaska, Inc.	y	Pad 10, Contained on pad	Methanol	1	Hand shovels removed gravel. gravel being stored at c pad hwsf pending analysis and shipment to permitted disp. location.	Interim Containment	Leak from valve actuator.
8/12/90	90360222403	ARCO Alaska, Inc.	y	FS 3, Contained on pad	Crude	1	Super sucker removed product, taken to pad 3 sw pit.	Approved Landfill	Module sump overflow spilled 99% produced water/1% crude, total volume 50 gal.
8/19/90	90360123102	BPXA	y	Well 2-34, Contained on pad	Crude	1	Gravel removed, placed in gravel disposal area.	Approved Landfill	
8/30/90	90360124201	ARCO Alaska, Inc.	y	COTU fuel terminal, Contained atop puddle, no gravel affected.	Diesel	1	Absorbents used, taken to nsb incinerator.	Incinerated	Transfer hose nozzle stuck open, overfilling drip pan.
9/14/90	90360928701	Conam	m	Prudhoe Bay, Not given	Other	1	Absorbents used, gravel removed. pads to nsb burnable dumpster, gravel to pad 3.	Incineration/approved Landfill	Polykin Primer 1027.
9/18/90	90360126101	ARCO Alaska, Inc.	y	FS 1, Contained on pad	Diesel	1	Absorbents, shovels used. pads to incinerator, gravel to pad 3.	Multiple	Line leaked when cut, spilling 50% oil, 50% water, total vol. 2 gal.
9/23/90	90360926601	Dowell Schlumberger	y	LPC Module 81, Gravel pad	Antifreeze	1	Absorbents used, gravel removed. pads and gravel stored in drums outside module.	Interim Containment	1/2 gal. ambitrol, a biodegradable antifreeze.
9/25/90	90360126804	ARCO Alaska, Inc.	y	DS 9 Well 41, Contained on pad	Diesel	1	Loader removed material, taken to pad 3 sowp.	Approved Landfill	
9/28/90	90360127102	Dowell Schlumberger	m	Prudhoe dumpster by welding shop-VECO yard, Gravel pad	Engine lube oil	1	Absorbents, shovels used. sorbents to burnable dumpster, gravel to nsb landfill. dumpster cleaned.	Incineration/approved Landfill	Oil improperly disposed of in dumpster.
10/2/90	90360127501	ARCO Alaska, Inc.	y	MCC Fuel Island, Snow and ice	Gasoline	1	Absorbents used, shovels removed snow and ice. holding at mccin drums.	Interim Containment	3/4 gal.
10/12/90	90360928501	BPXA	y	BOC Fuel dock, Gravel pad	Antifreeze	1	Gravel removed, taken to a3w2.	Approved Landfill	Connection in cooling system of truck failed.
10/13/90	90360128601	BPXA	y	GC 3 Skid 415, Gravel pad	Engine lube oil	1	Absorbents used, gravel removed. absorbents to nsb incin., gravel to a3/w2.	Incineration/approved Landfill	Malfunction of welder.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/14/90	90360128702	Conoco	y	B Pad, Gravel pad	Hydraulic oil	1	Absorbents used, gravel removed to storage berm.	Approved Landfill	
10/19/90	90360129201	ARCO Alaska, Inc.	y	Pad 3, Contained on pad	Hydraulic oil	1	Loader removed gravel, put in lined pit pending analysis.	Interim Containment	Line vibrated open.
10/19/90	90360129202	BPXA	y	H Pad Well 18, Contained on pad	Crude	1	Gravel removed, taken to pad 3 disposal well .	Subsurface Injection	Discovered during pad inspection.
10/20/90	90360129301	BPXA	y	GC 1 Skid 326, Contained on pad	Crude	1	Gravel removed, taken to pad 3.	Approved Landfill	Crude 10%, water 90%.
10/30/90	90360930301	Alaska Petroleum Contractors	y	DS 11 Near Well 8, Snow/ice 6 x 6	Antifreeze	1	Absorbents would not work. shovels removed snow/ice and 5 gal bucket of gravel. stored in drum for melting. liquid recycled, gravel to pad 3.	Multiple	
11/1/90	90360130501	ARCO Alaska, Inc.	y	DS 5 Well 11, Snow on gravel	Crude	1	Loader removed snow/gravel. supersucker used. taken to pad 3.	Approved Landfill	Suspect leak from slop oil trailer.
11/7/90	90360931101	Conoco	y	C-8 wellhouse, Contained on pad	Crude	1	Snow/gravel removed. temp. storage berm a pad.	Approved Landfill	Needle valve left open, back pressured. Mixture water/crude/methanol/diesel.
11/14/90	90360131801	BPXA	y	Y Pad Well 23, Contained on pad	Crude	1	Snow/gravel removed by loader, taken to pad 3.	Approved Landfill	Possibly from work done on adjacent well. High winds carried.
11/18/90	90360932201	ARCO Alaska, Inc.	y	C Pad, Contained on snow on pad	Corrosion inhibitor	1	Absorbents, hand shovels removed material. put in overpack drums. will be shipped to permitted hw site after testing.	Interim Containment	NALCO 3554 corrosion inhib.
12/16/90	90360135001	Conoco	y	L Pad, Gravel pad	Hydraulic oil	1	Material removed, put in temp storage berm.	Interim Containment	
1/3/91	91360100301	ARCO Alaska, Inc.	y	DS 1 Well 14, Contained on pad	Engine lube oil	1	Hand shovels, absorbents used. snow to pad 3, sorbents to nsb incinerator.	Incineration/approved Landfill	Hole in pump hose.
1/6/91	91360100601	BPXA	y	C Pad Well 2, Contained on pad	Crude	1	Snow removed with loader, taken to t pad pit.	Interim Containment	Faulty instrument gave incorrect pressure reading.
2/10/91	91360904101	Little Red Services	y	DS 11 Well 4, Snow/ice	Methanol	1	Snow removed, incinerated nsb.	Incinerated	
2/15/91	91360204602	ARCO Alaska, Inc.	y	OWIF, Snow on pad	Produced water	1	Snow picked up, melted, injected cpf 1.	Subsurface Injection	99% produced water, 1% diesel spilled when residual drained from hose.
2/16/91	91360104701	BPXA	y/m	ARCO Topping Plant, Contained on pad	Diesel	1	Material scraped up, bagged. taken to a3w2 melter for separation and handling.	Not Given	Diesel overflowed due to expansion of hot diesel.
2/20/91	91360105105	BPXA	m	Unknown, No damage listed	Engine lube oil	1	Snow picked up, incinerated on site.	Incinerated	Contractor GECO spilled oil and transmission fluid from idling equipment in remote area.
2/22/91	91360105301	BPXA	m	Unknown, No damage listed	Hydraulic oil	1	Snow picked up, incinerated on site.	Incinerated	Contractor GECO spilled 1/4 cup hydraulic, 3/4 cup oil when equipment leaked in remote area.
2/23/91	91360105404	ARCO Alaska, Inc.	y	DS 13 near manifold bldg., Snow on pad	Hydraulic oil	1	Loader, bucket removed snow, took to pad 3 for disposal.	Approved Landfill	
2/24/91	91360105502	BPXA	m	Unknown, No enviro damage	Engine lube oil	1	Snow removed, taken to nsb incinerator.	Incinerated	Truck motor leak.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/25/91	91360105602	BPXA	m	Unknown, Unknown	Engine lube oil	1	No cleanup or disposal done.	Other	Engine leak from a Nodwell 110. Truck driver made no visible attempt to clean up. Personnel sent back the next day could not locate spill due to drifted snow.
2/26/91	91360105706	BPXA	m	Unknown, Report says none	Transmission oil	1	Contaminated snow removed, incinerated nsb.	Incinerated	Equipment leaks of ATF 1 qt, motor oil 2 cups, diesel 1/2 gallon.
3/1/91	91360106001	BPXA	m	Unknown, Report says none	Engine lube oil	1	Contaminated snow removed, incinerated nsb.	Incinerated	Engine leak 1/2 cup.
3/2/91	91360106101	BPXA	m	Unknown, No enviro damage	Other	1	Snow removed, incinerated nsb.	Incinerated	Wench oil leaked from caterpillar.
3/3/91	91360106203	BPXA	m	Unknown, Unknown	Transmission oil	1	None.	Other	1/2 cup trans. oil, 1/4 cup oil leaked from equipment. Contractor GECO chose not to clean up that day and it was drifted over and not found the next day.
3/7/91	91360106602	BPXA	m	Survey Team Figures, No waterways	Engine lube oil	1	Snow removed, incinerated nsb.	Incinerated	6 cups motor oil, 1/2 cup transmission oil.
3/8/91	91360106705	BPXA	m	Survey Team Figures, No waterways	Transmission oil	1	Snow removed, incinerated nsb.	Incinerated	1/2 gal transmission oil.
3/19/91	91360507801	VECO	y	Point McIntyre #11, 2 x 2	Drilling muds	1	Scraped up, recycled.	Recycled	2 qts pilled when hatch on vac truck leaked.
3/20/91	91360107904	BPXA	m	Survey location, No water	Engine lube oil	1	No cleanup or disposal done.	Other	Equipment leak of 1/4 cup during survey job.
3/20/91	91360207903	ARCO Alaska, Inc.	y	DS 3 Well 16, Snow on pad	Seawater	1	Hand tools used. snow melted, injected pad 3.	Subsurface Injection	Grease fitting on grove valve leaked.
3/21/91	91360108002	BPXA	m	Survey location, No water	Engine lube oil	1	No cleanup or disposal done.	Other	Equipment leak of 3/4 cup during survey job.
3/22/91	91360108101	BPXA	m	Survey location, No water	Engine lube oil	1	No cleanup or disposal done.	Other	Equipment leak of 1/4 cup engine oil, 1/4 cup A.T.F. during survey job.
3/22/91	91360108102	BPXA	m	Survey location, Unknown, no water	Heavy grease	1	Snow removed, incinerated nsb.	Incinerated	Equipment leak gear oil during survey job. Improper disposal oiled snow. Seeded and fertilized.
3/23/91	91360108204	BPXA	m	Survey location, No water	Engine lube oil	1	No cleanup or disposal done.	Other	Equipment leak of 1/2 cup engine oil during survey job.
3/24/91	91360108301	BPXA	m	Survey location, Unknown, no water	Engine lube oil	1	Snow removed, incinerated nsb.	Incinerated	Equipment leak during survey job. Improper disposal oiled snow. Seeded and fertilized.
3/26/91	91360108501	BPXA	m	Survey location, Unknown, no water	Engine lube oil	1	Snow removed, incinerated nsb.	Incinerated	Equipment leak during survey job. Improper disposal oiled snow. Seeded and fertilized.
3/26/91	91360908501	BPXA	m	Survey location, Unknown, no water	Antifreeze	1	Snow removed, incinerated nsb.	Incinerated	Equipment leak during survey job. Improper disposal oiled snow. Seeded and fertilized.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/26/91	91360908502	ARCO Alaska, Inc.	y	Seawater Treatment Plant, 300 sq ft on pad	Antifreeze	1	Shoveled snow taken to 2z recycle.	Recycled	Residual tri-therm from 12/90 spill absorbed into insulation under roof panels; bleeds off under certain pressure/temp conditions.
3/27/91	91360108602	BPXA	m	Various survey locations, No waters	Engine lube oil	1	As much of contaminated snow removed as practical, incinerated nsb.	Incinerated	Equipment leaks and sloppy waste oil burning procedures
3/27/91	91360108603	BPXA	m	Various survey locations, No waters	Engine lube oil	1	None. no disposal.	Other	Equipment leaks.
3/28/91	91360108702	Camco Wireline	y	DS 9 Well 12, Snow on pad	Heavy grease	1	Absorbents used, shovels removed material, bagged. arco heavy equip removed to pad 3. absorbents incinerated.	Incineration/approved Landfill	Shift wheel sprayed mist of 755 liquid Oring.
3/29/91	91360108802	ARCO Alaska, Inc.	y	100 ft. west Dock Breech, water	Crude	1	Absorbents used immediately, incinerated nsb.	Incinerated	Sheen on water from 1/4 cup spilled when Morse oil skimmer tipped during loading.
3/29/91	91360108803	BPXA	m	Various survey locations, No waters	Engine lube oil	1	None. no disposal.	Other	Equipment leaks.
3/31/91	91360109001	BPXA	m	Various survey locations, No waters	Engine lube oil	1	As much of contaminated snow removed as practical, incinerated nsb.	Incinerated	Motor oil from waste pit.
4/2/91	91360109202	BPXA	m	Various survey locations, No waters	Engine lube oil	1	As much of contaminated snow removed as practical, incinerated nsb.	Incinerated	Equipment leak.
4/3/91	91360109303	BPXA	m	Various Survey sites, Tundra	Engine lube oil	1	As much contaminated snow removed as possible. incinerated nsb.	Incinerated	Equipment leaks. Leak was directly on barren tundra, making cleanup difficult.
4/5/91	91360109504	BPXA	m	Various Survey sites, Unknown	Transmission oil	1	As much snow was removed as practical. taken to nsb incinerator.	Incinerated	Equipment leaks.
4/5/91	91360209501	ARCO Alaska, Inc.	y	OWIF, 6 sq ft on pad	Other	1	Shovels used. recycled cpf.	Recycled	99% fresh water/1% oily water spilled when flush line left open.
4/6/91	91360109602	BPXA	m	Various Survey sites, Unknown	Engine lube oil	1	As much contaminated snow removed as possible. incinerated nsb.	Incinerated	Equipment leaks.
4/8/91	91360109802	BPXA	m	Various Survey sites, Unknown	Engine lube oil	1	As much contaminated snow removed as possible. incinerated nsb.	Incinerated	Equipment leaks.
4/8/91	91360109803	ARCO Alaska, Inc.	y	DS 4 manifold bldg., Contained on pad	Hydraulic oil	1	Loader removed material, took to pad 3 sw pit.	Approved Landfill	Hose on manlift ruptured.
4/9/91	91360109901	BPXA	m	Various Survey sites, Lake waters	Engine lube oil	1	As much snow was removed as practical. taken to nsb incinerator.	Incinerated	Equipment leaks. At time of spill not known location was water body. Minimal visual clues to terrain.
4/9/91	91360109902	BPXA	m	Various Survey sites, Lake waters	Engine lube oil	1	As much contaminated snow removed as possible. incinerated nsb.	Incinerated	Equipment leaks. Did not know area was water body. Terrain gave no clue to area.
4/12/91	91360110203	BPXA	y	GC 3 ice road, Contained on pad	Hydraulic oil	1	Material lremoved, taken to a3w2 snow melter.	Interim Containment	
4/13/91	91360110303	Alaska Petroleum Contractors	y	FS 1, 1/4 mi. W adjacent to spine rd., 1 sq ft snow on tundra	Waste crankcase	1	Hand tools, shovels used. material bagged, incin. nsb.	Incinerated	.3 pint oil, .5 pint antifreeze.
4/15/91	91360110502	BPXA	m	Various survey sites, Unknown	Other	1	None done. no disposal.	Other	Equipment leaks. Saddle (?) oil, 5 cups.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/17/91	91360110702	BPXA	m	Various survey sites, Unknown environmental damage	Transmission oil	1	None done. no disposal.	Other	Equipment leaks. Transmission and engine oil.
4/18/91	91360110802	ARCO Alaska, Inc.	y	Point McIntyre, ice/snow on pad	Crude	1	Shovels used. snow melted, injected pad 3.	Subsurface Injection	1/8 gal. residual leaked from hose.
4/19/91	91360110901	BPXA	m	Various survey sites, Unknown environmental damage	Transmission oil	1	None done. no disposal.	Other	Equipment leaks. Transmission and engine oil.
4/20/91	91360111001	Little Red Services	y	DS 1 Well 31, Gravel pad	Crude	1	No cleanup method given. recycled fs 1.	Recycled	50/50 diesel/crude.
4/21/91	91360111103	BPXA	m	Various survey sites, Unknown	Engine lube oil	1	None.	Unknown	Equipment leaks.
4/22/91	91360111205	BPXA	m	Various survey sites, Unknown	Engine lube oil	1	None.	Unknown	Equipment leaks.
4/24/91	91360111401	BPXA	m	Various survey sites, Unknown	Engine lube oil	1	None.	Unknown	Equipment leaks.
4/27/91	91360111702	BPXA	m	Various survey sites, No water bodies affected	Diesel	1	No cleanup or disposal.	Other	Equipment leaks.
5/5/91	91360112501	ARCO Alaska, Inc.	y	DS Maintenance South Hanger, 1 sq ft snow on parking lot	Engine lube oil	1	Shovels used, material taken to pad 3 sw pit.	Approved Landfill	Engine failure on pickup.
5/8/91	91360112801	ARCO Alaska, Inc.	y	DS 6, Snow	Crude	1	Loader used. taken to pad 3 sowp.	Approved Landfill	
5/8/91	91360112802	ARCO Alaska, Inc.	y	Seawater Treatment Plant, Gravel pad	Unknown	1	Hand shovels, absorbents used. absorbents taken to nsb incin., liquid recycled fs 1. gravel washed, returned to pad.	Multiple	Probably equip. leak.
5/19/91	91360913901	ARCO Alaska, Inc.	y	FS 2 Maintenance Shop, Gravel pad	Antifreeze	1	Floor dry used. dry and gravel removed, taken to pad 3.	Approved Landfill	On recorder.
5/26/91	91360914601	BPXA	y	B Pad Well 5, Contained on pad	Other	1	Absorbents used, shovels removed paint and gravel. sorbents to nsb incin., gravel to a3w2 melter.	Multiple	While offloading paint, 2 cans knocked over.
5/30/91	91360115005	ARCO Alaska, Inc.	y	East side Sag River near bridge, 2 x 30 ft on water	Unknown	1	Boom deployed, sorbents in place, super sucker used. liquid injected pad 3, sorbents nsb incin.	Multiple	Non-crude hydrocarbon possibly from snow crest at turnoff.
5/31/91	91360115103	Otis Engineering	y	DS 16-1S, Pad	Diesel	1	Shovels removed material, put in 55 gal drum for shipement to lower 48.	Interim Containment	Bucke knocked over, spilling diesel.
6/2/91	91360115302	ARCO Alaska, Inc.	y	MCC Pad, Tundra pond	Other	1	Sorbent boom, sorbents removed sheen from shoreline. shovels removed gravel. sorbents to nsb incin., gravel to pad 3 sowp.	Incineration/approved Landfill	Contaminated snow/gravel around fuel island pushed to edge of pad. Snow meltwater produced sheen on adjacent tundra pond.
6/9/91	91360116012	ARCO Alaska, Inc.	y	DS 3, Contained on pad	Diesel	1	"cleaned up" no method given. taken to pad 3 swp.	Approved Landfill	On recorder.
6/13/91	91360916401	ARCO Alaska, Inc.	y	DS 16 Well 1, Not given	Corrosion inhibitor	1	Absorbents used, gravel removed. put in salvage drum, taken to c pad.	Interim Containment	On recorder.
6/15/91	91360116603	BPXA	m	Module 303, Snow/ice	Crude	1	Absorbents used, snow/ice scalped. pads to dumpser, ice/snow to melt tank.	Multiple	X rays being taken of damaged fitting.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/17/91	91360116803	Alaska Petroleum Contractors	y	L Pad east side, 2 sq ft gravel	Gasoline	1	Scooped up contaminated gravel, put in temp storage berm.	Interim Containment	Leaking fuel line on truck.
6/22/91	91360117305	BPXA	m	Access Rd, Spine Rd and Put River, Contained on pad	Diesel	1	Gravel shoveled, taken to a3w2 rinse tank.	Interim Containment	Strap on fuel tank broke, rubbed hose into top of fuel tank. Tank leaked while parked at angle.
6/26/91	91360117704	ARCO Alaska, Inc.	y	FS 1 Manifold Bldg, Contained on pad	Hydraulic oil	1	Loader & bucket removed gravel. took to pad 3 sowp.	Approved Landfill	
6/27/91	91360117801	VECO	m	W. End X-Ray bldg at Airport Ramp, 2 sq ft gravel	Diesel	1	Gravel removed, bagged taken to sowp.	Approved Landfill	1 qt leaked from generator filter line.
6/29/91	91360118001	ARCO Alaska, Inc.	y	CCP WW tank line, Contained on pad	Engine lube oil	1	Shovel removed gravel, took to pad 3.	Approved Landfill	Lube, fuel, glycol and water.
7/1/91	91360218201	ARCO Alaska, Inc.	y	DS 1 Well 13, Gravel pad	Produced water	1	Shoveled up gravel, took to pad 3 sowp.	Approved Landfill	1/2 gal. 39% crude/61% prod. water dripped from valve lead port on wellhead.
7/7/91	91360118802	Peak Oilfield Services	y	CFP Milne Point, west side, 2 sq ft gravel	Diesel	1	Loader, shovels used. gravel to temp storage berm.	Interim Containment	School bus fuel tank.
7/8/91	91360118903	ARCO Alaska, Inc.	y	CGF, Gravel	Diesel	1	Gravel removed, taken to pad 3 sowp.	Approved Landfill	Drips from offloading activities during year.
7/11/91	91360119201	Alaska Petroleum Contractors	y	FS 3, 3 ft diam. gravel	Transmission oil	1	Absorbents used, gravel removed. pads to nsb incin., gravel stored in bucket, probably incinerated also.	Incinerated	Transmission failure on truck.
7/13/91	91360119402	ARCO Alaska, Inc.	y	WGI, Contained on pad	Hydraulic oil	1	3 yds gravel removed, taken to pad 3.	Approved Landfill	
7/20/91	91360120104	BPXA	y	Y Pad Skid 59, Contained on pad	Crude	1	Sorbents used, gravel bladed back into pad. sorbents to santa fe pad/nsb burnable dumpster.	Multiple	1/2 gallon.
7/22/91	91360120302	ARCO Alaska, Inc.	y	FS 2 loading dock, Gravel	Crude	1	Sorbents used, loader remove gravel. sorbents to nsb incin., gravel pad 3 sowp.	Incineration/approved Landfill	20 gal. 99% prod. water, 1% crude spilled when dump truck shifted during loading causing sand and prod water to spill onto pad.
7/27/91	91360120801	ARCO Alaska, Inc.	y	DS 3 Well 23, Gravel pad	Crude	1	Hand shovels, absorbents used, incinerated nsb.	Incinerated	
7/27/91	91360120802	HB and R	m	Spine Rd. & Milne Pt. Rd guard shack, Gravel	Engine lube oil	1	Absorbents used, bagged, incinerated.	Incinerated	
8/3/91	91730121501	ARCO Alaska, Inc.	y	DS 3 Well 35, Gravel	Diesel	1	Shovels, loader removed gravel. taken to pad 3 sowp.	Approved Landfill	Diesel splashed out of secondary containment.
8/3/91	91730121502	ARCO Alaska, Inc.	y	FS 2, 2 x 2 Gravel	Diesel	1	Gravel shoveled up, taken to pad 3 sowp.	Approved Landfill	Line plugged, broke spilling 80% prod. water, 20% diesel, total 3 gal.
8/3/91	91730121505	HB and R	y	CPF 1, 2 sq ft gravel	Diesel	1	Absorbents used, bagged, put in nsb burnable dumpster.	Incinerated	Fluid left in hose.
8/4/91	91730121601	ARCO Alaska, Inc.	y	DS 4 Well 7, Gravel	Diesel	1	Absorbents used, 1.5 cy gravel removed. absorbents to nsb incin., gravel to pad 3 sowp.	Incineration/approved Landfill	Oil sprayed from slop oil trailer while bleeding line.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/4/91	91730121602	ARCO Alaska, Inc.	y	FS 3, Sheen on pond	Unknown	1	No cleanup initiated as sheen was too small and transient to contain.	None Required	Trace of unknown hydrocarbon caused in pond after wading. Sheen could NOT be recreated by further wading in pond.
8/5/91	91730121702	Otis Engineering	y	DS 12-12, Gravel	Crude	1	Abosorbents, shovels used. material bagged. pads to nsb incin., gravel to pad 3 swdp.	Incineration/approved Landfill	Leak while bleeding down lubricator line into tank.
8/5/91	91730921701	ARCO Alaska, Inc.	y	DS 17, Gravel	Antifreeze	1	Gravel removed taken to swdp.	Approved Landfill	Truck overheated.
8/11/91	91730122301	ARCO Alaska, Inc.	y	DS 16 Well 13, 2 x 2 gravel pad	Diesel	1	Cleanup not given. material taken to pad 3.	Approved Landfill	Needle vibrated open during wireline op. testing.
8/11/91	91730122302	ARCO Alaska, Inc.	y	CCP, 1 cu yd gravel	Hydraulic oil	1	Absorbents, shovels used. bagged, taken to pad 3 swp.	Approved Landfill	Coupler on fork lift broke.
8/14/91	91730122604	Pearson of Alaska	m	Mobil Phillips Pad, BP side, Gravel	Diesel	1	Will coordinate with mobil. adec agreed to postpone cleanup til spring.	Other	Gary Schultz of Fbks handling cleanup. Girard has advised Pearson.
8/16/91	91730122801	Fracmaster	y	DS 11 Well 1, Gravel	Engine lube oil	1	Absorbents used, some gravel removed. incin. pad 3.	Incinerated	1 gal. crude, 4 gal. fresh water spiled when bleed out line cracked.
8/25/91	91730123701	ARCO Alaska, Inc.	y	DS 4 Well 16, Contained on pad	Crude	1	Handshovels removed gravel, pads soaked up fluid. gravel to pad 3, pads to nsb incin.	Incineration/approved Landfill	Slop oil tank overflowed during bleed op. Exempt material.
9/6/91	91730124904	ARCO Alaska, Inc.	y	Pad 3, 1/4 cy gravel	Diesel	1	Shovels, rakes removed gravel. washed, recycled at pad 3.	Recycled	Overtopping tank on generator.
9/6/91	91730924901	ARCO Alaska, Inc.	y	DS 12 Well 19, Contained on pad	Corrosion inhibitor	1	Shovels removed gravel, took to pad 3.	Approved Landfill	Updated by Chris Brown 9/8. Not 2-3 bbls as originally reported. Possibly corr. inhib.
9/26/91	91730126902	H.B. & R.	y	DS 6 Well 13, 2 sq ft	Crude	1	Absorbents used, incinerated nsb.	Incinerated	
9/30/91	91730927301	Camco Wireline	y	DS 13 Well 9, Gravel pad	Antifreeze	1	Absorbents, shovels used. gravel stored for incineration at aic.	Interim Containment	Faulty connection on cherry picker.
10/11/91	91730128401	Green Construction	y	DS 9, Not given	Hydraulic oil	1	Not given	Not Given	
10/14/91	91730128701	BPXA	y	CSP Pad near Bullrail on SE side, Contained on pad	Hydraulic oil	1	Material shoveled into bags, taken to snow melter at a3w2.	Interim Containment	Stabilizer ram on backhoe.
10/15/91	91730128803	BPXA	y	B Pad Well 4, Contained on pad	Crude	1	Loader removed material, took to t pad.	Approved Landfill	Worm flow tube on wireline unit allowed crude to escape from lubricator.
10/28/91	91730130104	BPXA	y	GC 1, Contained on pad	Diesel	1	Shovels removed snow/gravel. taken to melter at a3w2.	Interim Containment	Compressor overfilled.
11/7/91	91730131101	BPXA	y	Spine Rd. in front of BOC, Gravel on road	Transmission oil	1	Loader, blade removed contaminant. taken to melt tank at a3w2.	Interim Containment	Transmission in Doyon rig truck broke.
11/8/91	91730531201	BPXA	y	DS L5, Contained on pad	Drilling muds	1	Absorbent and shovels used. contaminants bagged, incinerated nsb.	Incinerated	Injection line connection failed. Initial report was 420 gallons, changed on 11/11 to 1 gallon. Final states all but 1 gal caught in liner (diked berm).
11/9/91	91730131302	BPXA	y	N Pad near wellhouse 10, Contained on pad	Hydraulic oil	1	Absorbents put down; material shoveled into bags. absorbents to nsb incin., ice/snow to a3w2 for melting.	Multiple	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/19/91	91730932301	BPXA	y	CC1, Contained on pad	Antifreeze	1	Material shoveled into bags, taken to arco pad 3.	Approved Landfill	Truck overheated and overflowed.
11/20/91	91730132401	BPXA	y/m	Sante Fe Pad, Contained on pad	Engine lube oil	1	Loader removed material. taken to arco pad 3.	Approved Landfill	Leaking fuel line on manlift.
11/20/91	91730132303	BPXA	y	A Pad Well 20, Contained on pad	Crude	1	Camco removed material, bagged, took to arco pad 3.	Approved Landfill	Neelde valve left open.
12/6/91	91730234001	Canadian Fracmaster	y	DS 4 Well 7, Not given	Seawater	1	Not given.	Not Given	On recorder.
1/5/92	92730900501	ARCO Alaska Inc.	y	Seawater Treatment Plant, 3 sq ft snow on pad	Antifreeze	1	Shovels removed snow, melted, recycled on site.	Recycled	
1/20/92	92730102002	ARCO Alaska Inc.	y	COTU, Not given	Diesel	1	Shoveled snow up, recycled at facility.	Recycled	
1/21/92	92730102101	ARCO Alaska Inc.	y	FS 1, Gravel/snow	Engine lube oil	1	Loader, bucket removed material, taken to pad 3.	Approved Landfill	
2/17/92	92730104802	BPXA	m	Remote location, No enviro. damage	Engine lube oil	1	Snow removed. disposal not given.	Not Given	From 1/4 to 1/2 cup motor oil and ATF leaked by equipment.
2/18/92	92730104903	BPXA	m	Remote location, No enviro. damage	Engine lube oil	1	Snow removed. disposal not given.	Not Given	1/4 cup motor oil and ATF leaked by equipment.
2/20/92	92730105101	BPXA	m	Remote location, Unknown	Engine lube oil	1	Snow removed. disposal not given.	Not Given	3/4 cup motor oil, 1/2 gal ATF leaked by equipment.
2/21/92	92730105201	BPXA	m	Remote location, Unknown	Engine lube oil	1	Snow removed. disposal not given.	Not Given	3 cups motor oil leaked by equipment.
2/22/92	92730105301	BPXA	m	Remote location, Unknown	Transmission oil	1	Snow removed. disposal not given.	Not Given	1/2 cup ATF leaked by equipment.
3/2/92	92730106203	ARCO Alaska Inc.	m	DS 27, Not given	Diesel	1	Not given. recycled.	Recycled	90% diesel, 10% crude.
3/2/92	92730106301	BPXA	m	Remote Location, Unknown	Transmission oil	1	Contaminated snow removed, taken to nsb incinerator.	Incinerated	
3/2/92	92730906301	BPXA	m	Remote Location, Unknown	Antifreeze	1	Contaminated snow removed, taken to nsb incinerator.	Incinerated	
3/4/92	92730106503	BPXA	m	Remote Location, Unknown	Engine lube oil	1	Contaminated snow removed, taken to nsb incinerator.	Incinerated	
3/6/92	92730106701	BPXA	m	Remote Location, Unknown	Transmission oil	1	Contaminated snow removed, taken to nsb incinerator.	Incinerated	
3/8/92	92730106806	BPXA	m	Remote Location, No env. damage	Transmission oil	1	Contaminated snow removed, hauled to nsb incin.	Incinerated	3 cups ATF, 1/2 cup oil.
3/9/92	92730107002	Sun Drilling	m	West Security check point Tract #55, Gravel road	Transmission oil	1	Scraped up oil and snow, bagged. taken to 2m pad for injection.	Subsurface Injection	1/8 gal.
3/10/92	92730107101	BPXA	m	Remote Location, No env. damage	Engine lube oil	1	Contaminated snow removed, hauled to nsb incin.	Incinerated	1/2 gal. oil, 1 cup ATF.
3/12/92	92730907202	ARCO Alaska Inc.	m	Not given, 4 sq ft	Antifreeze	1	Snow bagged, taken to 2z recycle.	Recycled	Suspect vehicle leak.
3/13/92	92730107303	BPXA	m	Remote Location, Unknown	Transmission oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/15/92	92730107501	ARCO Alaska Inc.	y	DS L5, Snow on lined relief pit	Crude	1	Shoveled up. melted, recycled fs 1.	Recycled	

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/16/92	92730107601	BPXA	m	Remote Location, Unknown	Engine lube oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/17/92	92730107703	BPXA	m	Remote Location, Unknown	Transmission oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/18/92	92730107802	BPXA	m	Remote Location, Unknown	Transmission oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/19/92	92730107902	BPXA	m	Remote Location, Unknown	Transmission oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/21/92	92730108102	BPXA	m	Remote Location, Unknown	Transmission oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/21/92	92730908101	BPXA	m	Remote Location, Unknown	Antifreeze	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
3/26/92	92730108603	BPXA	m	Remote Location, tundra	Transmission oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	Spills cleaned up by mechanic after operators abandoned and failed to report.
3/31/92	92730909102	BPXA	m	VP 398, Line #142, Unknown	Antifreeze	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
4/2/92	92730109301	BPXA	m	VP 240-237, Line #PU92-140, Unknown	Transmission oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	
4/3/92	92730109401	ARCO Alaska Inc.	y	DS 4 Well 36, 1 sq ft snow on pad	Engine lube oil	1	Absorbents used, bagged, taken to nsb incin.	Incinerated	2 qts.
4/5/92	92730109701	ARCO Alaska Inc.	y	DS 15, 10 x 10 snow on gravel	Crude	1	Shovels used, taken to pad 3 for injection.	Subsurface Injection	
4/9/92	92730110101	BPXA	m	East end BOL, Line PU92-144, No damage known	Transmission oil	1	Snow removed, backhauled to nsb incinerator.	Incinerated	Equipment leaks.
4/13/92	92730110501	BPXA	m	Remote site, Unknown	Engine lube oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	Equipment leaks.
4/13/92	92730111002	BPXA	m	Remote site, Unknown	Engine lube oil	1	Contaminated snow removed, backhauled to nsb incinerator.	Incinerated	Equipment leaks.
4/14/92	92730910501	Canadian Fracmaster	y	DS 12, Not given	Methanol	1	Snow removed, taken to pad 3.	Approved Landfill	
4/16/92	92730910701	Alaska Petroleum Contractors	y	ARCO Central Comp Plant Mod 4976, Not given	Antifreeze	1	Not given	Not Given	
4/18/92	92730111003	ARCO Alaska Inc.	y	DS L4 Well 3, Snow on gravel	Engine lube oil	1	Absorbents, shovels. pads taken to nsb incin., snow bagged for nsb incin.	Incinerated	1 qt.
4/19/92	92730911101	ARCO Alaska Inc.	y	DS 13, 1 x 2 Snow on gravel	Corrosion inhibitor	1	Shovels used. snow melted, injected pad 3.	Subsurface Injection	1 pt.
4/19/92	92730911102	ARCO Alaska Inc.	y	DS 7, 1 x 1 Snow on gravel	Other	1	Shovels used. snow melted, injected pad 3.	Subsurface Injection	1 pt. scale inhibitor.
4/20/92	92730111203	ARCO Alaska Inc.	y	DS L2, No damage	Crude	1	Shovels used. bagged, recycled fs 1.	Recycled	1 qt. 80% crude, 20% water.
4/23/92	92730111402	ARCO Alaska Inc.	y	MCC fuel, Snow	Diesel	1	Scooped up snow. put in dumpster in lined containment area. disposal will be determined.	Interim Containment	Accumulated small leaks during fueling.
4/26/92	92730111801	ARCO Alaska Inc.	y	MCC fuel island, Gravel pad	Diesel	1	Absorbents used, incinerated nsb.	Incinerated	1/2 gal.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/30/92	92730112201	Conam	y	DS 4, 3 ft ice/gravel	Hydraulic oil	1	Absorbents used, snow shoveled, bagged. disposal not given.	Not Given	
5/1/92	92730912301	ARCO Alaska Inc.	y	DS 15, Grave and snow on pad	Antifreeze	1	Shovels, pads used. gravel and snow taken to pad 3.	Approved Landfill	
5/2/92	92730912401	ARCO Alaska Inc.	y	DS L1, Gravel	Antifreeze	1	Shovels used, bagged, taken to pad 3.	Approved Landfill	
7/15/95	95399919601	BPXA	ym	West Prudhoe Bay COLD STORAGE PAD & ANNEX 3,	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 01-00-00		Leak
7/18/95	95399919901	BPXA	ym	West Prudhoe Bay, MPU LEASE ROAD,	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 01-00-00		Collision/Allision
8/16/95	95399922801	BPXA	y	West Prudhoe Bay, NEAR C PAD,	Engine Lube Oil	1	Took Report, Case Closed 01-00-00		Leak
8/19/95	95399923101	BPXA	y	West Prudhoe Bay, F PAD,	Crude	1	Took Report, Case Closed 01-00-00		Overfill
8/28/95	95399924001	BPXA	y	West Prudhoe Bay, GC 1,	Transmission Oil	1	Took Report, Case Closed 09-26-95		Line Failure
8/28/95	95399924002	BPXA	y	West Prudhoe Bay, WATER LOADING SITE AT BIG LAKE,	Transmission Oil	1	Took Report, Case Closed 01-00-00		Leak
9/1/95	95399924404	ARCO ALASKA INC.	ym	East Prudhoe Bay, WELL 27,	Hydraulic Oil	1	Took Report, Case Closed 01-00-00		Leak
9/1/95	95399924405	BPXA	ym	West Prudhoe Bay, NIAKUK WELL 27,	Hydraulic Oil	1	Took Report, Case Closed 01-00-00		External Factors
9/1/95	95399924402	ARCO ALASKA INC.	y	Flow Station 1 (FS-1),	Sulfuric Acid	1	Took Report, Case Closed 01-00-00		Leak
9/2/95	95399924502	ARCO ALASKA INC.	y	Seawater Injection Plant (SIP),	Other	1	Took Report, Case Closed 01-00-00		Seal Failure
9/15/95	95399925801	ARCO ALASKA INC.	y	East Prudhoe Bay, FS 2,	Engine Lube Oil	1	Took Report, Case Closed 01-00-00		Leak
9/19/95	95399926203	BPXA	y	West Prudhoe Bay, F PAD,	Crude	1	Took Report, Case Closed 01-00-00		Overfill
10/5/95	95399927803	BPXA	ym	West Prudhoe Bay, SKID 50/51, NGL PAD,	Natural Gas	1	Took Report, Case Closed 01-00-00		Equipment Failure
10/27/95	95399930001	ARCO ALASKA INC.	y	East Prudhoe Bay, DS 5, WELL 6,	Crude	1	Took Report, Case Closed 01-00-00		Overfill
1/20/96	96399902002	BPXA	ym	EAST NORTH SLOPE, SOURDOUGH EXPLORATION SIGHT, 40,	Diesel	1	Took Report, Case Closed 01-00-00		Collision/Allision
1/20/96	96399902003	BPXA	ym	West Prudhoe Bay, SOURDOUGH 3,	Diesel	1	Took Report, Case Closed 01-00-00		Human Error
2/12/96	96399904301	ARCO	ym	EAST NORTH SLOPE, COLVILLE ICE ROAD,	Diesel	1	Took Report, Case Closed 01-00-00		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/19/96	96399907903	BPXA	y	East Prudhoe Bay DS 15,	Diesel	1	Took Report, Case Closed 01-00-00		Other
4/1/96	96399909201	BPXA	ym	West Prudhoe Bay, SOURDOUGH 3,	Acid, Other	1	Took Report, Case Closed 01-00-00		Equipment Failure
4/17/96	96399910801	VECO	ym	East Prudhoe Bay, EAST CHECK POINT,	Acid, Other	1	Took Report, Case Closed 01-00-00		Cargo Not Secured
5/27/96	96399914801	VECO	y	FS3, OUTSIDE MODULE 49-21, 1 PINT TUNDRA	Diesel	1	Took Report, Case Closed 01-00-00		Leak
5/28/96	96399914901	ARCO	y	L 5 ACCESS RD., < 1 GAL TUNDRA	Engine Lube Oil	1	Took Report, Case Closed 01-00-00		Rollover/Capsize
6/13/96	96399916504	ARCO	y	East Prudhoe Bay, CCP,	Engine Lube Oil	1	Took Report, Case Closed 01-00-00		Leak
6/25/96	96399917703	ARCO	y	East Prudhoe Bay, DS 17,	Crude	1	Took Report, Case Closed 01-00-00		Overfill
7/8/96	96399919002	ARCO	y	East Prudhoe Bay, WWTP,	Hydraulic Oil	1	Took Report, Case Closed 01-00-00		Line Failure
7/13/96	96399919501	DOWELL	y	East Prudhoe Bay, DS 13 WELL 6,	Acid, Other	1	Took Report, Case Closed 01-00-00		Human Error
7/17/96	96399919901	ARCO	y	East Prudhoe Bay, CGF,	Engine Lube Oil	1	Took Report, Case Closed 01-00-00		Other
8/27/96	96399924001	NANA MARRIOTT	y	SPINE RD NEAR MCC PROJECTS,	Transmission Oil	1	Took Report, Case Closed 01-00-00		Other
10/17/96	96399929102	VECO	y	Lisburne Production Center (LPC),	Transmission Oil	1	Took Report, Case Closed 01-00-00		Line Failure
10/27/96	96399930101	ARCO	y	SIP,	Other	1	Took Report, Case Closed 01-00-00		Leak
11/4/96	96399930901	ARCO	y	DS 5,	Crude	1	Took Report, Case Closed 01-00-00		Overfill
11/14/96	96399931901	ARCO	y	CGF,	Ethyl Alcohol (Ethanol)	1	Took Report, Case Closed 11-27-96		Seal Failure
1/4/97	97399900401	ARCO	ym	East Prudhoe Bay, SPINE RD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-00-00		Cargo Not Secured
1/15/97	97399901501	VECO	y	East Prudhoe Bay, ARCO PAD 3 OW INJECTION,	Produced Water	1	Took Report, Case Closed 01-00-00		Overfill
1/30/97	97399903001	BPXA	y	West Prudhoe Bay, Z PAD WELL 5,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 01-00-00		Leak
3/5/97	97399906401	BPXA	y	West Prudhoe Bay SPINE RD,	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 01-00-00		Collision/Allision
3/27/97	97399908601	ARCO	y	Drill Site 14,	Hydraulic Oil	1	Took Report, Case Closed 04-01-97		Line Failure
6/7/97	97399915801	BPXA	y	West North Slope, BP Well Pad M.,	Other	1	Took Report, Case Closed 06-27-97		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
8/24/97	97399923601	ARCO	y	East Prudhoe Bay, ARCO EOA.,	Transmission Oil	1	Took Report, Case Closed 01-00-00		Unknown
9/11/97	97399925401	BPXA	y	West North Slope, BP Well Pad R.,	Other	1	Took Report, Case Closed 01-00-00		Overfill
9/24/97	97399926701	DOWELL	y	West North Slope, BP Well Pad N.,	Hydrofluoric Acid	1	Took Report, Case Closed 11-12-97		Well Blow-Out
9/25/97	97399926801	VECO	y	West North Slope, VECO, Well Pad P.,	Corrosion Inhibitor	1	Took Report, Case Closed 02-09-98		Leak
10/5/97	97399927802	ARCO	ym	West North Slope, ARCO Z PAD ACCESS ROAD.,	Engine Lube Oil	1	Phone Follow-up, Case Closed 01-00-00		Rollover/Capsize
10/26/97	97399929901	ARCO	y	EAST NORTH SLOPE, ARCO DS 4 WELL 31.,	Corrosion Inhibitor	1	Took Report, Case Closed 01-00-00		Leak
10/26/97	97399929904	ARCO	y	EAST NORTH SLOPE, ARCO DS 4.,	Corrosion Inhibitor	1	Took Report, Case Closed 01-00-00		Leak
1/17/98	98399901701	B.P.	ym	West North Slope, B.P. KUPARUK RIVER/EWE. (NOT IN,	Hydraulic Oil	1	Took Report, Case Closed 01-00-00		Seal Failure
1/27/98	98399902702	B.P.	y	EAST NORTH SLOPE, B.P. NADAMI CPU PAD.,	Drilling Muds	1	Took Report, Case Closed 02-05-98		Seal Failure
1/30/98	98399903002	B.P.	ym	EAST NORTH SLOPE, B.P./ENDICOTT, UNDER PIPERACK BE,	Other	1	Took Report, Case Closed 01-00-00		Leak
1/30/98	98399903001	B.P.	y	West North Slope, B.P. Well Pad U,,	Hydraulic Oil	1	Took Report, Case Closed 01-00-00		Rollover/Capsize
3/14/98	98399907303	B.P.	ym	EAST NORTH SLOPE, ENDICOTT, SKID 405 S. SIDE.,	Drag Reducing Agent	1	Took Report, Case Closed 04-08-98		Leak
3/31/98	98399909001	VECO	y	East Prudhoe Bay, VECO/ARCO, S.I.P.,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-00-00		Human Error
5/16/98	98399913601	PEAK OIL SERVICES/ARCO	y	EAST NORTH SLOPE, PEAK OIL SERVICES/ARCO DS 14,	Bases	1	Took Report, Case Closed 01-00-00		Overfill
5/19/98	98399913902	B.P.	ym	EAST NORTH SLOPE, B.P.,	Drilling Muds	1	Took Report, Case Closed 06-22-98		Human Error
5/29/98	98399914902	B.P.	ym	West North Slope, B.P. SANTA FE PAD.,	Unknown	1	Took Report, Case Closed 07-16-98		Sabotage/Vandalism
7/20/98	98399920101	BPXA	ym	West North Slope, GC-1 PWH SECTION,	Crude	1	Took Report, Case Closed 07-28-98		Leak
11/5/98	98399930901	ARCO	y	East Prudhoe Bay, ARCO, PM2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-06-98		Valve Failure
11/18/98	98399932202	NORDIC	y	West Prudhoe Bay, Well Pad S,	Drilling Muds	1	Took Report, Case Closed 11-18-98		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/12/99	99399904303	NABORS	ym	West Prudhoe Bay, BP, NABORS RIG 7ES,	Hydraulic Oil	1	Took Report, Case Closed 03-05-99		Line Failure
4/22/99	99399911201	WESTERN GEOPHYSICAL	ym	West North Slope, NPRA-EAST, CREW 794,	Hydraulic Oil	1	Took Report, Case Closed 04-22-99		Line Failure
4/30/99	99399912002	B EXPLORATION (ALASKA)	y	West Prudhoe Bay, Well Pad H,WELLHOUSE H-14,	Other	1	Took Report, Case Closed 05-01-99		Seal Failure
9/12/99	99399925502	BPXA	y	BP, WOA, COLD STORAGE PAD,	Diesel	1	Took Report, Case Closed 09-15-99		Unknown
10/14/99	99399928701	BPXA	y	West North Slope, Well Pad M-05,	Other	1	Took Report, Case Closed 10-17-99		Leak
11/14/99	99399931801	BPXA	ym	West Prudhoe Bay, Well Pad K-19 S-RISER,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-16-99		Human Error
12/8/99	99399934202	PEAK OILFIELD SER/BPX	y	West Prudhoe Bay, Well Pad B,	Seawater	1	Took Report, Case Closed 12-09-99		Human Error
12/9/99	99399934301	NORDIC/BP EXPLORATION	y	West Prudhoe Bay, Well Pad B-26,	Drilling Muds	1	Took Report, Case Closed 12-11-99		External Factors
12/16/99	99399935001	ARCO ALASKA	ym	East Prudhoe Bay, CGF, 4910 MODULE OUTSIDE,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-16-99		Seal Failure
3/23/00	00399908301	ARCO ALASKA	y	East Prudhoe Bay, PAD 3,	Hydraulic Oil	1	Took Report, Case Closed 03-25-00		Line Failure
4/11/00	00399910203	DOWELL SCHLUMBERGER/BPX	y	EAST NORTH SLOPE, Well Pad E-19,	Other	1	Took Report, Case Closed 04-12-00		Leak
4/29/00	00399912003	BPXA	ym	West Prudhoe Bay, Well Pad S-RISER,	Corrosion Inhibitor	1	Took Report, Case Closed 05-02-00		Equipment Failure
5/3/00	00399912402	BPXA	y	West Prudhoe Bay, Well Pad K,	Seawater	1	Took Report, Case Closed 05-07-00		Leak
6/16/00	00399916801	ALASKA WEST EXPRESS INC	y	West North Slope, P-BAY C-PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 06-19-00		Leak
6/19/00	00399917103	BPXA	y	West Prudhoe Bay, Well Pad W,	Engine Lube Oil	1	Took Report, Case Closed 06-20-00		Leak
7/10/00	00399919201	PHILLIPS ALASKA	y	Drill Site 5,	Crude	1	Took Report, Case Closed 07-18-00		Seal Failure
7/17/00	00399919901	PEAK OILFIELD SER/BPX	ym	East Prudhoe Bay, SPINE ROAD, GC-1 FLOW LINES,	Engine Lube Oil	1	Took Report, Case Closed 07-19-00		Rollover/Capsize

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/18/00	00399920001	AK PETRO CONT/BP EXPLORATION	y	Well Pad X,	Other	1	Took Report, Case Closed 07-20-00		Cargo Not Secured
10/6/00	00399928003	BPXA	ym	West Prudhoe Bay F PAD METHANOL STORAGE TANKS,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 10-10-00		Leak
10/13/00	00399928701	BROOK RANGE SUPPLY	ym	West Prudhoe Bay BROOKS RANGE PAD,	Other	1	Took Report, Case Closed 10-13-00		Leak
1/11/01	01399901102	BPXA	ym	East Prudhoe Bay, DRILL SITE #13, WELL #27,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 07-24-01		Equipment Failure
2/4/01	01399903502	SCHLUMBERGER/ BPX	y	West North Slope Well Pad E,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 02-04-01		Leak
3/3/01	01399906202	SCHLUMBERGER/ BPX	y	West North Slope E-4,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-03-01		Other
3/7/01	01399906601	SCHLUMBERGER/ BPX	y	West North Slope D-PAD D-9,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-07-01		Valve Failure
4/28/01	01399911804	NORCON/ BPX	y	EAST NORTH SLOPE DRILL SITE 14,	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 04-28-01		Leak
5/10/01	01399913001	SCHLUMBERGER-DOWELL	ym	EAST NORTH SLOPE SCHLUMBERGER-DOWELL FACILITY,	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 05-10-01		Leak
5/26/01	01399914603	BPXA	y	EAST NORTH SLOPE DRILL SITE 02,	Grease	1	Took Report, Case Closed 05-26-01		Unknown
6/12/01	01399916301	BPXA	ym	West North Slope SANTA FE PAD,	Acid, Other	1	Took Report, Case Closed 06-12-01		Other
6/24/01	01399917502	BPXA	y	EAST NORTH SLOPE PT. MAC 2 PAD,	Diesel	1	Took Report, Case Closed 06-24-01		Puncture
6/24/01	01399917503	BPXA	y	EAST NORTH SLOPE PT. MAC 1 PAD,	Diesel	1	Took Report, Final Report 06-27-01		Puncture
6/26/01	01399917701	BPXA	y	Pad 3,	Crude	1	Field Visit/s, Case Closed 07-06-03		Leak
8/10/01	01399922202	DOYON DRILLING/ BPX	y	West Prudhoe Bay Well Pad S,	Seawater	1	Took Report, Case Closed 08-12-01		Leak
8/16/01	01399922801	BPXA	y	Drill Site 14,	Produced Water	1	Took Report, Case Closed 08-17-01		Corrosion

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/29/01	01399927204	BPXA	y	Drill Site 1 (DS-1),	Crude	1	Took Report, Final Report 10-15-01		Valve Failure
10/3/01	01399927603	BPXA	y	EAST OPERATING AREA PRUDHOE BAY, FLEET VEHICLE SHO,	Diesel	1	Took Report, Case Closed 10-03-01		Equipment Failure
10/27/01	01399930002	BPXA	y	DS L 5,	Crude	1	Took Report, Case Closed 10-28-01		Equipment Failure
11/4/01	01399930801	BPXA	y	CGF,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-05-01		Seal Failure
11/20/01	01399932401	BPXA	y	EAST NORTH SLOPE DRILL SITE 15,	Crude	1	Took Report, Case Closed 12-19-03		Equipment Failure
11/22/01	01399932601	BPXA	y	East Prudhoe Bay, PT MCINTYRE #2,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 11-24-01		Valve Failure
11/23/01	01399932702	BPXA	y	DS L2,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 11-23-01		Valve Failure
12/1/01	01399933501	BPXA	y	BP, WOA, F PAD,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 12-01-01		Unknown
12/5/01	01399933902	BPXA	y	West Prudhoe Bay Well Pad S,	Corrosion Inhibitor	1	Took Report, Final Report 12-07-01		Leak
12/21/01	01399935501	BPXA	y	Well Pad R,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-28-01		Leak
12/25/01	01399935901	BPXA	y	W PAD,	Crude	1	Phone Follow-up, Final Report 12-26-01		Leak
12/31/01	01399936503	ALASKA PETROLEUM CONT/BP EXPLORATIO	y	c Pad,	Corrosion Inhibitor	1	Phone Follow-up, Final Report 01-06-02		Gauge/Site Glass Failure
1/11/02	02399901101	SCHLUMBERGER/BP EXPLORATION ALASKA	y	Well Pad G,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-14-02		Equipment Failure
2/6/02	02399903702	BPXA	y	Drill Site 15,	Crude	1	Took Report, Complaint/Report Received 02-08-02		Leak
2/8/02	02399903902	PEAK OILFIELD SER/BP EXPLORATION	y	Warm Storage,	Hydraulic Oil	1	Took Report, Case Closed 02-11-02		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/16/02	02399904701	BPXA	y	Seawater Injection Plant (SIP),	Seawater	1	Took Report, Final Report 07-08-02		Valve Failure
2/16/02	02399904704	HOUSTON CONTRACTING /BP EXPLORATION	y	East Dock,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 02-19-02		Line Failure
2/26/02	02399905702	Anadarko Petroleum Corp	y	Drill Site 2,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 03-01-02		Human Error
3/14/02	02399907303	ALASKA WEST EXPRESS INC.	y	Well Pad C,	Methyl Alcohol (Methanol)	1	Took Report, Complaint/Report Received 04-15-02		Equipment Failure
3/14/02	02399907304	ALASKA WEST EXPRESS INC/BPX	y	Drill Site 10,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-15-02		Equipment Failure
3/16/02	02399907502	GREAT NORTHWEST TRUCKING	ym	Ice Roads,	Hydraulic Oil	1	Took Report, Case Closed 03-18-02		Human Error
3/18/02	02399907704	H.C. PRICE/PHILLIP S ALASKA	ym	EWE Pipeline,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 03-20-02		Human Error
3/18/02	02399907703	BPXA	y	Ice road between W Pad and GC-2,	Methyl Alcohol (Methanol)	1	Took Report, Complaint/Report Received 03-18-02		Human Error
3/26/02	02399908503	BPXA	y	Gathering Center 3 (GC-3),	Ethylene Glycol (Antifreeze)	1	Took Report, Complaint/Report Received 03-27-02		Seal Failure
3/27/02	02399908605	DOWELL SCHLUMBERG ER/BP EXPLORATION	y	East Prudhoe Bay, DS 17,	Methyl Alcohol (Methanol)	1	Took Report, Complaint/Report Received 04-10-02		Equipment Failure
4/5/02	02399909501	NORCON/BP EXPLORATION ALASKA	y	Well Pad V,	Sulfuric Acid	1	Took Report, Case Closed 04-08-02		Cargo Not Secured
4/6/02	02399909601	BPXA	y	Drill Site 13,	Corrosion Inhibitor	1	Took Report, Case Closed 04-08-02		Equipment Failure
4/8/02	02399909803	NORCON/BP EXPLORATION ALASKA	y	U-09 (Fabrication Shop),	Sulfuric Acid	1	Took Report, Final Report 04-09-02		Equipment Failure
4/11/02	02399910101	BPXA	y	c Pad,	Hydraulic Oil	1	Took Report, Complaint/Report Received 04-12-02		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/14/02	02399910401	BPXA	y	Well Pad G,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 04-15-02		Leak
4/26/02	02399911601	BPXA	y	POINT MCINTYRE, PM 2,	Corrosion Inhibitor	1	Took Report, Complaint/Report Received 04-29-02		External Factors
4/28/02	02399911801	BPXA	y	Well Pad L,	Corrosion Inhibitor	1	Took Report, Final Report 04-29-02		Equipment Failure
5/12/02	02399913201	BPXA	y	Drill Site 1 (DS-1),	Corrosion Inhibitor	1	Took Report, Case Closed 05-13-02		Seal Failure
5/26/02	02399914601	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Well Pad D,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 05-28-02		Human Error
6/1/02	02399915201	BPXA	y	Drill Site 13,	Crude	1	Took Report, Complaint/Report Received 06-13-02		Line Failure
6/4/02	02399915501	BPXA	y	Drill Site 4,	Produced Water	1	Took Report, Final Report 06-04-02		Other
6/19/02	02399917001	BPXA	y	Drill Site 13,	Zinc Concentrate	1	Took Report, Case Closed 06-24-02		Unknown
6/23/02	02399917402	BPXA	y	Point McIntyre #1,	Corrosion Inhibitor	1	Took Report, Case Closed 07-01-02		Leak
7/8/02	02399918901	ALASKA WEST EXPRESS INC/BPX	y	East Prudhoe Bay, PAD 10.,	Diesel	1	Took Report, Case Closed 07-14-02		Vehicle Leak, All
7/8/02	02399918901	ALASKA WEST EXPRESS INC/BPX	y	East Prudhoe Bay, PAD 10.,	Engine Lube Oil	1	Took Report, Case Closed 07-14-02		Vehicle Leak, All
7/8/02	02399918901	ALASKA WEST EXPRESS INC/BPX	y	East Prudhoe Bay, PAD 10.,	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 07-14-02		Vehicle Leak, All
7/13/02	02399919401	DOWELL SCHLUMBERGER/BP EXPLORATION	y	Well Pad K,	Seawater	1	Took Report, Case Closed 07-15-02		Containment Overflow
7/14/02	02399919502	BPXA	y	Well Pad P,	Seawater	1	Took Report, Complaint/Report Received 07-15-02		Valve Failure
7/15/02	02399919602	BPXA	y	Well Pad S,	Produced Water	1	Took Report, Complaint/Report Received 07-16-02		Human Error
7/20/02	02399920101	BPXA	y	Drill Site 11,	Corrosion Inhibitor	1	Took Report, Complaint/Report Received 07-20-02		Unknown
7/24/02	02399920501	BPXA	y	Drill Site 7,	Crude	1	Took Report, Complaint/Report Received 07-25-02		Unknown

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/24/02	02399920502	BPXA	y	GC 1,	Unknown	1	Phone Follow-up, Case Closed 07-30-02		Unknown
7/28/02	02399920901	VECO ALASKA/BP EXPLORATION (ALASKA)	y	DS 5,	Drag Reducing Agent	1	Took Report, Final Report 07-29-02		Human Error
7/30/02	02399921101	BPXA	y	West Gas Injection,	Diesel	1	Took Report, Case Closed 08-01-02		Human Error
7/31/02	02399921202	BPXA	y	DS 16,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 08-01-02		Human Error
8/2/02	02399921401	BPXA	y	East Dock,	Corrosion Inhibitor	1	Took Report, Case Closed 08-05-02		Equipment Failure
8/4/02	02399921601	BPXA	y	Drill Site 11,	Other	1	Took Report, Final Report 08-05-02		Seal Failure
8/5/02	02399921701	VECO ALASKA/BP EXPLORATION (ALASKA)	y	DS 5,	Ethylene Glycol (Antifreeze)	1	Took Report, Complaint/Report Received 08-06-02		Vehicle Leak, All
8/7/02	02399921901	ALASKA PETROLEUM CONT/BP EXPLORATIO	y	Well Pad V,	Corrosion Inhibitor	1	Took Report, Final Report 08-08-02		Crack
8/10/02	02399922202	BPXA	y	Flow Station 1 (FS-1),	Other	1	Took Report, Final Report 08-13-02		Line Failure
8/21/02	02399923302	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Flow Station 3 (FS-3),	Diesel	1	Took Report, Complaint/Report Received 08-23-02		Seal Failure
8/29/02	02399924102	PEAK OILFIELD SER/BP EXPLORATION	y	Drill Site 2,	Drag Reducing Agent	1	Took Report, Complaint/Report Received 08-30-02		Human Error
9/3/02	02399924601	BPXA	y	Drill Site 15,	Crude	1	Took Report, Complaint/Report Received 10-22-02		Valve Failure
9/3/02	02399924601	BPXA	y	Drill Site 15,	Methyl Alcohol (Methanol)	1	Took Report, Complaint/Report Received 10-22-02		Valve Failure
9/11/02	02399925403	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Skid 50/61,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Technical Assistance 01-28-03		Cargo Not Secured
9/19/02	02399926201	BPXA	y	MCC Fuel Dock,	Diesel	1	Took Report, Complaint/Report Received 09-20-02		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/25/02	02399926801	WESTERN GECO	y	West Dock,	Diesel	1	Field Visit/s, Final Report 09-28-02		Corrosion
10/4/02	02399927702	VECO ALASKA INC.	y	Drill Site 14,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Technical Assistance 10-07-02		Leak
10/16/02	02399928902	BPXA	y	Drill Site 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 10-21-02		Valve Failure
10/21/02	02399929402	BPXA	y	Drill Site 7 Well 9,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 10-21-02		Valve Failure
10/26/02	02399929902	BPXA	y	DS 3,	Diesel	1	Took Report, Case Closed 10-28-02		Valve Failure
10/26/02	02399929903	PEAK OILFIELD SER/BP EXPLORATION	y	Prudhoe Bay Mix Plant,	Seawater	1	Took Report, Case Closed 10-28-02		Human Error
11/28/02	02399933201	BPXA	y	W PAD,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 11-28-02		Human Error
12/2/02	02399933602	BPXA	y	Drill Site 14,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-09-02		Valve Failure
12/15/02	02399934903	ALASKA WEST EXPRESS INC.	y	Well Pad C,	Hydraulic Oil	1	Took Report, Case Closed 12-19-02		Equipment Failure
12/18/02	02399935201	ConocoPhillips Alaska	ym	West North Slope, B.P. PRICE PAD.,	Hydraulic Oil	1	Phone Follow-up, Case Closed 06-09-03		External Factors
12/20/02	02399935402	PEAK OILFIELD SER/BP EXPLORATION	y	Well Pad M,	Drilling Muds	1	Took Report, Case Closed 12-22-02		Human Error
1/10/03	03399901001	BPXA	y	Drill Site 5,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 01-13-03		Leak
1/10/03	03399901002	BPXA	y	Drill Site 9 (DS-9),	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-10-03		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/28/03	03399902802	VECO ALASKA/BP EXPLORATION (ALASKA)	y	Oxbow Road,	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 01-30-03		Equipment Failure
1/29/03	03399902901	BPXA	y	BP, Well Pad Y,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 01-31-03		Valve Failure
2/7/03	03399903802	Baker-Hughes	ym	SPINE ROAD, DEADHORSE,	Diesel	1	Phone Follow-up, Case Closed 07-01-03		External Factors
2/7/03	03399903802	Baker-Hughes	ym	SPINE ROAD, DEADHORSE,	Hydraulic Oil	1	Phone Follow-up, Case Closed 07-01-03		External Factors
2/16/03	03399904701	BPXA	y	ARCO, DRILL SITE 14,	Diesel	1	Took Report, Final Report 02-16-03		Human Error
2/17/03	03399904801	ALASKA PETROLEUM CONTRACTORS	y	W PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 02-18-03		Human Error
2/18/03	03399904901	BPXA	y	Drill Site 11,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 02-20-03		Seal Failure
2/28/03	03399905903	BPXA	ym	Checkpoint-East,	Sulfuric Acid	1	Took Report, Case Closed 03-03-03		Equipment Failure
3/3/03	03399906203	BPXA	y	E PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-05-03		Seal Failure
3/4/03	03399906301	DOWELL SCHLUMBERGER	y	East Prudhoe Bay, PT MCINTYRE #2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-06-03		Other
3/4/03	03399906302	BPXA	y	East Prudhoe Bay, L4,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-06-03		Valve Failure
3/5/03	03399906401	BPXA	y	Drill Site L-4,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 06-30-03		Seal Failure
3/13/03	03399907201	BPXA	ym	East Prudhoe Bay DRILL SITE MAINTINENCE,	Engine Lube Oil	1	Took Report, Final Report 03-13-03		Vehicle Leak, All
3/17/03	03399907602	BPXA	y	Drill Site 7,	Crude	1	Took Report, Case Closed 03-22-03		Leak
3/24/03	03399908303	BPXA	ym	East Prudhoe Bay DRILL SITE MAINTINENCE,	Other	1	Took Report, Case Closed 03-27-03		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/29/03	03399908801	BPXA	y	DS 16,	Crude	1	Took Report, Case Closed 03-31-03		Equipment Failure
3/29/03	03399908802	BPXA	y	Drill Site 12,	Hydraulic Oil	1	Took Report, Case Closed 03-31-03		Line Failure
3/30/03	03399908901	BPXA	y	W PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-31-03		Valve Failure
4/5/03	03399909501	BPXA	y	Drill Site 18,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 04-06-03		Equipment Failure
4/10/03	03399910002	BPXA	ym	Spine road,	Diesel	1	Took Report, Case Closed 04-14-03		Rollover/Capsize
4/16/03	03399910601	BPXA	y	DS L 5,	Corrosion Inhibitor	1	Took Report, Case Closed 04-21-03		Corrosion
4/23/03	03399911301	ALASKA PETROLEUM CONTRACTORS	y	Drill Site 1 (DS-1),	Methyl Alcohol (Methanol)	1	Took Report, Final Report 06-28-03		Line Failure
4/28/03	03399911801	BPXA	y	Flow Station 3 (FS-3),	Sulfuric Acid	1	Took Report, Case Closed 04-29-03		Overfill
5/8/03	03399912802	BPXA	y	Well Pad H,	Drilling Muds	1	Took Report, Case Closed 05-12-03		Seal Failure
5/14/03	03399913401	ALASKA PETROLEUM CONTRACTORS	y	BP, PBU, Well Pad D,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-15-03		Line Failure
5/17/03	03399913702	BPXA	y	West Prudhoe Bay, Well Pad H,	Corrosion Inhibitor	1	Took Report, Case Closed 05-19-03		Leak
5/24/03	03399914401	BPXA	y	West Dock,	Crude	1	Took Report, Case Closed 05-24-03		Unknown
5/25/03	03399914503	BPXA	y	West Prudhoe Bay, BOC PAD,	Hydraulic Oil	1	Took Report, Case Closed 05-27-03		Seal Failure
6/5/03	03399915602	BPXA	y	DS 16,	Corrosion Inhibitor	1	Took Report, Case Closed 06-06-03		Leak
6/16/03	03399916701	BPXA	y	BP, Well Pad E,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 06-17-03		Leak
6/28/03	03399917902	BPXA	y	Well Pad S,	Seawater	1	Took Report, Case Closed 07-01-03		Leak
7/5/03	03399918601	ALASKA CLEAN SEAS	y	East Prudhoe Bay, ARCO U-11,	Propylene Glycol	1	Took Report, Case Closed 08-04-03		Human Error
7/10/03	03399919101	BPXA	y	Flow Station 2 (FS-2),	Corrosion Inhibitor	1	Took Report, Case Closed 07-11-03		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/18/03	03399919903	BPXA	ym	Fire Station,	Hydraulic Oil	1	Took Report, Case Closed 07-23-03		Line Failure
7/19/03	03399920001	BPXA	y	Flow Station 3 (FS-3),	Engine Lube Oil	1	Took Report, Case Closed 07-23-03		Leak
7/23/03	03399920401	BPXA	ym	Conam Fleet Shop,	Engine Lube Oil	1	Took Report, Case Closed 07-24-03		Human Error
7/23/03	03399920402	ALASKA PETROLEUM CONTRACTORS	y	Well Pad J,	Corrosion Inhibitor	1	Took Report, Case Closed 07-28-03		Human Error
7/30/03	03399921101	ALASKA PETROLEUM CONTRACTORS	y	W PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 08-04-03		Valve Failure
7/31/03	03399921202	BPXA	y	East Prudhoe Bay, LISBURNE PRODUCTION CENTER,	Engine Lube Oil	1	Took Report, Case Closed 12-05-03		Human Error
8/7/03	03399921902	BPXA	y	East Prudhoe Bay, NORTHERN GAS INJECTION (NGI),	Crude	1	Phone Follow-up, Case Closed 09-15-03		Corrosion
8/7/03	03399921902	BPXA	y	East Prudhoe Bay, NORTHERN GAS INJECTION (NGI),	Natural Gas Liquids	1	Phone Follow-up, Case Closed 09-15-03		Corrosion
8/13/03	03399922501	BPXA	y	West Prudhoe Bay, R PAD,	Natural Gas Liquids	1	Field Visit/s, Case Closed 01-18-05		Valve Failure
8/17/03	03399922901	BPXA	y	W PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 08-18-03		Leak
8/20/03	03399923201	BPXA	y	Well Pad R,	Diesel	1	Took Report, Case Closed 11-07-03		Equipment Failure
8/20/03	03399923202	ASRC Energy Ser (formerly APC)	y	c Pad,	Corrosion Inhibitor	1	Took Report, Case Closed 08-20-03		Valve Failure
8/20/03	03399923203	BPXA	y	Well Pad L,	Crude	1	Took Report, Case Closed 08-21-03		External Factors
8/22/03	03399923402	BPXA	y	Well Pad B,	Hydrochloric Acid	1	Took Report, Case Closed 08-27-03		Seal Failure
9/17/03	03399926001	BPXA	y	Drill Site 12,	Corrosion Inhibitor	1	Took Report, Case Closed 09-19-03		Line Failure
10/15/03	03399928801	BPXA	y	LPC Drill Site L1,	Seawater	1	Took Report, Case Closed 10-16-03		External Factors
10/16/03	03399928901	BPXA	y	POINT MCINTYRE, PM 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 10-21-03		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/5/03	03399930901	BPXA	y	Well Pad B,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-14-03		Line Failure
11/7/03	03399931101	BPXA	y	BP, WOA, F PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-10-03		Seal Failure
11/25/03	03399932901	BPXA	ym	EWE Pipeline,	Other	1	Phone Follow-up, Case Closed 12-02-03		Human Error
11/27/03	03399933101	BPXA	y	Well Pad A,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 11-30-03		Seal Failure
11/29/03	03399933302	BPXA	y	Flow Station 2 (FS-2),	Ethylene Glycol (Antifreeze)	1	Took Report, Case Closed 12-02-03		Leak
11/29/03	03399933302	BPXA	y	Flow Station 2 (FS-2),	Hydraulic Oil	1	Took Report, Case Closed 12-02-03		Leak
12/3/03	03399933702	BPXA	ym	EWE Pipeline,	Natural Gas Liquids	1	Took Report, Case Closed 02-11-04		Crack
12/13/03	03399934701	BPXA	y	FLEET SHOP,	Hydraulic Oil	1	Took Report, Case Closed 12-15-03		Line Failure
1/3/04	04399900301	BPXA	y	Well Pad J,	Corrosion Inhibitor	1	Took Report, Case Closed 01-14-04		Seal Failure
1/5/04	04399900501	BPXA	y	Well Pad Q,	Diesel	1	Field Visit/s, Final Report 01-21-04		Equipment Failure
1/8/04	04399900802	BPXA	y	Drill Site 12,	Corrosion Inhibitor	1	Took Report, Case Closed 01-11-04		Valve Failure
1/14/04	04399901401	ASCI	y	Pad C,	Corrosion Inhibitor	1	Phone Follow-up, Final Report 01-15-04		Seal Failure
1/21/04	04399902102	ConocoPhillips Alaska	y	Well Pad Z,	Transmission Oil	1	Phone Follow-up, Case Closed 01-07-05		Collision/Allision
1/23/04	04399902301	BPXA	y	West Prudhoe Bay, GC 3,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-24-04		Gauge/Site Glass Failure
1/28/04	04399902801	BPXA	y	Flow Station 1 (FS-1),	Corrosion Inhibitor	1	Took Report, Case Closed 02-02-04		Equipment Failure
2/8/04	04399903903	BPXA	ym	Checkpoint-Central,	Other	1	Took Report, Case Closed 02-10-04		Unknown
2/19/04	04399905002	ConocoPhillips Alaska	ym	Lake M0025,	Transmission Oil	1	Field Visit/s, Case Closed 02-25-04		Equipment Failure
2/19/04	04399905001	BPXA	y	Drill Site 6,	Hydraulic Oil	1	Took Report, Case Closed 02-25-04		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/29/04	04399906002	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Crude	1	Phone Follow-up, Final Report 08-12-04		Equipment Failure
2/29/04	04399906002	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Produced Water	1	Phone Follow-up, Final Report 08-12-04		Equipment Failure
2/29/04	04399906004	BPXA	y	PAD 10,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-02-04		Seal Failure
3/14/04	04399907402	BPXA	y	Oxbow Road,	Hydraulic Oil	1	Phone Follow-up, Case Closed 03-16-04		Equipment Failure
3/18/04	04399907801	BPXA	y	Sag River Delta ice road,	Hydraulic Oil	1	Phone Follow-up, Case Closed 03-22-04		Line Failure
3/25/04	04399908502	BPXA	y	Well Pad B,	Hydraulic Oil	1	Phone Follow-up, Case Closed 03-30-04		Unknown
4/14/04	04399910501	BPXA	y	Well Pad G,	Corrosion Inhibitor	1	Took Report, Case Closed 04-19-04		Equipment Failure
4/16/04	04399910701	BPXA	y	Drill Site 6,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 08-16-04		Line Failure
4/17/04	04399910801	BPXA	y	Well Pad Z,	Corrosion Inhibitor	1	Took Report, Case Closed 04-18-04		Seal Failure
4/18/04	04399910901	BPXA	y	POINT MCINTYRE, PM 2,	Sulfuric Acid	1	Took Report, Case Closed 04-21-04		Leak
4/21/04	04399911201	BPXA	y	PAD 10,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 04-27-04		Human Error
4/23/04	04399911401	BPXA	y	Well Pad C,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 04-27-04		Human Error
4/24/04	04399911501	BPXA	y	Seawater Injection Plant (SIP),	Sulfuric Acid	1	Phone Follow-up, Final Report 04-27-04		Human Error
4/26/04	04399911701	BPXA	y	POINT MCINTYRE, PM 2,	Hydraulic Oil	1	Took Report, Case Closed 04-26-04		Equipment Failure
4/30/04	04399912101	BPXA	y	East Prudhoe Bay GPMA Drillsites,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-04-04		Human Error
5/2/04	04399912301	BPXA	y	Drill Site 18,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-04-04		Human Error

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
5/6/04	04399912701	BPXA	y	Well Pad Z,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-06-04		Leak
5/6/04	04399912703	ASRC Energy Services	y	Drill Site 3,	Corrosion Inhibitor	1	Took Report, Case Closed 05-10-04		Equipment Failure
5/18/04	04399913903	BPXA	y	Oxbow Road,	Diesel	1	Took Report, Case Closed 05-21-04		Equipment Failure
5/31/04	04399915203	BPXA	y	W PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 06-04-04		Equipment Failure
6/4/04	04399915601	BPXA	y	Point McIntyre #1,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 06-07-04		Valve Failure
6/6/04	04399915802	ASRC Energy Ser (formerly APC)	y	Prudhoe Bay Operations Center (PBOC),	Corrosion Inhibitor	1	Took Report, Case Closed 06-07-04		Other
6/12/04	04399916401	BPXA	y	Drill Site 18,	Crude	1	Took Report, Case Closed 06-17-04		Leak
6/22/04	04399917401	BPXA	y	Drill Site 6,	Corrosion Inhibitor	1	Took Report, Case Closed 06-28-04		Equipment Failure
7/4/04	04399918601	ALASKA CLEAN SEAS	y	West Dock,	Diesel	1	Phone Follow-up, Case Closed 07-08-04		Unknown
7/4/04	04399918602	BPXA	y	Flow Station 3 (FS-3),	Emulsion Breaker	1	Took Report, Complaint/Report Received 07-06-04		Equipment Failure
7/5/04	04399918701	CROWLEY MARINE SERVICE	y	West Dock,	Diesel	1	Phone Follow-up, Case Closed 07-08-04		Unknown
7/10/04	04399919202	BPXA	y	West Dock,	Engine Lube Oil	1	Took Report, Case Closed 08-17-04		Equipment Failure
7/14/04	04399919601	BPXA	y	Lisburne Production Center (LPC),	Corrosion Inhibitor	1	Took Report, Case Closed 07-21-04		Line Failure
7/19/04	04399920102	ASRC Energy Ser (formerly APC)	y	Drill Site 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 07-21-04		Equipment Failure
7/20/04	04399920201	BPXA	ym	SPINE ROAD, DEADHORSE,	Hydraulic Oil	1	Phone Follow-up, Case Closed 07-26-04		Line Failure
7/21/04	04399920301	BPXA	y	Drill Site 15,	Crude	1	Phone Follow-up, Case Closed 07-26-04		Equipment Failure
7/25/04	04399920702	BPXA	y	Lisburne Production Center (LPC),	Corrosion Inhibitor	1	Took Report, Case Closed 07-26-04		Human Error
7/26/04	04399920801	BPXA	y	Drill Site 6,	Crude	1	Phone Follow-up, Case Closed 07-28-04		Equipment Failure
8/19/04	04399923203	BPXA	y	West Prudhoe Bay, E PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 08-20-04		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
10/3/04	04399927702	BPXA	y	DS 16,	Corrosion Inhibitor	1	Took Report, Case Closed 10-11-04		Equipment Failure
10/10/04	04399928402	BPXA	y	E PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 10-11-04		Equipment Failure
10/14/04	04399928802	BPXA	ym	West Prudhoe Bay COLD STORAGE PAD & ANNEX 3,	Other	1	Took Report, Case Closed 10-19-04		Collision/Allision
10/18/04	04399929202	BPXA	ym	Access Road,	Transmission Oil	1	Took Report, Case Closed 10-19-04		Collision/Allision
10/18/04	04399929201	BPXA	y	East Prudhoe Bay, FLOW STA 1, SEAWATER INJECTION P,	Hydraulic Oil	1	Phone Follow-up, Case Closed 10-19-04		Collision/Allision
10/19/04	04399929301	BPXA	y	Drill Site 1 (DS-1),	Corrosion Inhibitor	1	Took Report, Case Closed 10-20-04		Valve Failure
10/28/04	04399930202	BPXA	y	Drill Site 2,	Engine Lube Oil	1	Took Report, Case Closed 11-09-04		Equipment Failure
11/1/04	04399930601	BPXA	y	Drill Site 15,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-09-04		Equipment Failure
11/9/04	04399931401	BPXA	y	Well Pad V,	Corrosion Inhibitor	1	Took Report, Case Closed 11-09-04		Valve Failure
11/10/04	04399931502	BPXA	y	Drill Site 6,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 01-13-05		Line Failure
11/16/04	04399932101	BPXA	y	Drill Site 14,	Corrosion Inhibitor	1	Took Report, Case Closed 11-18-04		Leak
11/17/04	04399932201	ASRC Energy Ser (formerly APC)	y	Well Pad Z,	Corrosion Inhibitor	1	Took Report, Case Closed 11-19-04		Equipment Failure
11/23/04	04399932801	ASRC Energy Ser (formerly APC)	y	EOA, PAD 10,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-24-04		Valve Failure
11/26/04	04399933102	BPXA	y	Well Pad H,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 01-13-05		Leak
12/2/04	04399933701	BPXA	y	Well Pad M,	Corrosion Inhibitor	1	Took Report, Case Closed 12-09-04		Equipment Failure
12/4/04	04399933903	BPXA	y	Well Pad F,	Corrosion Inhibitor	1	Phone Follow-up, Final Report 01-18-05		Line Failure
12/9/04	04399934401	BPXA	y	c Pad,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-13-04		Unknown
12/11/04	04399934601	BPXA	y	Well Pad M,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-13-04		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
12/23/04	04399935802	BPXA	y	POINT MCINTYRE, PM 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-27-04		Equipment Failure
12/24/04	04399935901	ASRC Energy Ser (formerly APC)	y	Flow Station 1 (FS-1),	Other	1	Phone Follow-up, Case Closed 12-28-04		Gauge/Site Glass Failure
12/28/04	04399936301	BPXA	y	U Pad,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-03-05		Gauge/Site Glass Failure
12/29/04	04399936401	ALASKA WEST EXPRESS, INC.	y	c Pad,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-03-05		Equipment Failure
1/4/05	05399900401	BPXA	y	Well Pad D,	Corrosion Inhibitor	1	Took Report, Case Closed 01-05-05		Equipment Failure
1/6/05	05399900601	BPXA	y	Drill Site L-4, DS-L4 MeOH spill	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 01-24-05		Valve Failure
1/15/05	05399901504	BPXA	y	Drill Site 12,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 01-18-05		Puncture
1/16/05	05399901605	BPXA	ym	Access Road,	Transmiss ion Oil	1	Took Report, Case Closed 01-18-05		Equipment Failure
1/17/05	05399901701	BPXA	y	Well Pad V,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-18-05		Human Error
1/22/05	05399902202	BPXA	y	E PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 01-24-05		Valve Failure
2/2/05	05399903301	BPXA	y	Well Pad K,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 02-04-05		Line Failure
2/5/05	05399903602	BPXA	y	Drill Site 7,	Crude	1	Took Report, Case Closed 02-07-05		Valve Failure
2/15/05	05399904601	BPXA	y	Flow Station 2 (FS-2),	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 02-24-05		Human Error
2/16/05	05399904702	BPXA	ym	Access Road,	Transmiss ion Oil	1	Phone Follow-up, Case Closed 02-24-05		Seal Failure
2/22/05	05399905302	BPXA	y	Drill Site 15,	Diesel	1	Phone Follow-up, Case Closed 04-28-05		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
2/22/05	05399905302	BPXA	y	Drill Site 15,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 04-28-05		Equipment Failure
2/25/05	05399905601	BPXA	y	Drill Site 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-01-05		Equipment Failure
3/5/05	05399906402	BPXA	y	DS 16,	Corrosion Inhibitor	1	Took Report, Case Closed 03-05-05		Valve Failure
3/12/05	05399907101	ASRC Energy Ser (formerly APC)	y	West Prudhoe Bay, X PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 03-14-05		Valve Failure
3/14/05	05399907302	ASRC Energy Ser (formerly APC)	y	West Prudhoe Bay, X PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 03-15-05		Seal Failure
3/23/05	05399908201	BPXA	y	POINT MCINTYRE, PM 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-23-05		Equipment Failure
3/23/05	05399908202	BPXA	y	Well Pad U,	Corrosion Inhibitor	1	Took Report, Case Closed 03-24-05		Leak
3/24/05	05399908302	ASRC Energy Ser (formerly APC)	y	c Pad,	Corrosion Inhibitor	1	Took Report, Case Closed 03-31-05		Cargo Not Secured
3/29/05	05399908801	BPXA	y	W PAD,	Hydrochloric Acid	1	Took Report, Case Closed 03-31-05		Seal Failure
4/4/05	05399909404	BPXA	y	Drill Site 13,	Methyl Alcohol (Methanol)	1	Took Report, Final Report 04-08-05		Valve Failure
4/17/05	05399910702	BPXA	y	POINT MCINTYRE, PM 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 04-19-05		Valve Failure
4/23/05	05399911302	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Corrosion Inhibitor	1	Took Report, Case Closed 04-23-05		Valve Failure
4/24/05	05399911402	ASRC Energy Ser (formerly APC)	y	East Prudhoe Bay, DRILL SITE 17,	Corrosion Inhibitor	1	Took Report, Case Closed 04-29-05		Valve Failure
4/24/05	05399911403	ASRC Energy Ser (formerly APC)	y	Well Pad Z,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 04-27-05		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
4/28/05	05399911801	BPXA	y	Drill Site 2,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-04-05		Gauge/Site Glass Failure
5/4/05	05399912402	ASRC Energy Ser (formerly APC)	y	Well Pad S,	Corrosion Inhibitor	1	Took Report, Case Closed 05-06-05		Valve Failure
5/6/05	05399912601	ASRC Energy Ser (formerly APC)	y	c Pad,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 05-09-05		Gauge/Site Glass Failure
5/6/05	05399912602	BPXA	y	Well Pad S,	Corrosion Inhibitor	1	Took Report, Case Closed 05-09-05		Valve Failure
5/9/05	05399912901	BPXA	y	Drill Site 13,	Hydraulic Oil	1	Took Report, Case Closed 05-11-05		Seal Failure
5/11/05	05399913101	BPXA	y	POINT MCINTYRE, PM 2,	Other	1	Took Report, Case Closed 05-14-05		Gauge/Site Glass Failure
5/12/05	05399913201	ASRC Energy Ser (formerly APC)	y	Well Pad S,	Corrosion Inhibitor	1	Took Report, Case Closed 05-14-05		Equipment Failure
5/12/05	05399913202	BPXA	y	Flow Station 1 (FS-1),	Corrosion Inhibitor	1	Took Report, Case Closed 05-14-05		Human Error
6/22/05	05399917302	BPXA	y	Well Pad N,	Other	1	Took Report, Case Closed 06-29-05		Valve Failure
7/1/05	05399918203	BPXA	y	Flow Station 3 (FS-3),	Corrosion Inhibitor	1	Took Report, Case Closed 07-12-05		Leak
7/4/05	05399918501	ASRC Energy Ser (formerly APC)	y	BP, Well Pad D,	Corrosion Inhibitor	1	Took Report, Case Closed 07-07-05		Leak
7/7/05	05399918801	ASRC Energy Ser (formerly APC)	y	Well Pad C,	Corrosion Inhibitor	1	Took Report, Case Closed 07-11-05		Valve Failure
7/8/05	05399918902	ASCI	y	c Pad,	Diesel	1	Took Report, Case Closed 07-11-05		Vehicle Leak, All
7/17/05	05399919801	ASRC Energy Ser (formerly APC)	y	Well Pad B,	Corrosion Inhibitor	1	Took Report, Case Closed 07-20-05		Equipment Failure
7/24/05	05399920501	ASRC Energy Ser (formerly APC)	y	Well Pad K,	Corrosion Inhibitor	1	Took Report, Case Closed 07-25-05		Valve Failure
8/6/05	05399921802	BPXA	y	POINT MCINTYRE, PM 2,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 01-06-06		Valve Failure
9/4/05	05399924701	BPXA	y	POINT MCINTYRE, PM 2,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 09-07-05		Gauge/Site Glass Failure
9/20/05	05399926302	ASRC Energy Ser (formerly APC)	y	Well Pad A,	Corrosion Inhibitor	1	Took Report, Case Closed 09-22-05		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/25/05	05399926801	BPXA	y	POINT MCINTYRE, PM 2,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 01-06-06		Seal Failure
9/27/05	05399927003	BPXA	y	Flow Station 3 (FS-3),	Other	1	Took Report, Case Closed 09-27-05		Leak
9/30/05	05399927301	ASRC Energy Ser (formerly APC)	y	Gathering Center 2 (GC-2),	Other	1	Took Report, Case Closed 10-03-05		Human Error
9/30/05	05399927302	ASRC Energy Ser (formerly APC)	y	Well Pad C,	Corrosion Inhibitor	1	Took Report, Case Closed 10-03-05		Equipment Failure
9/30/05	05399927303	BPXA	y	Well Pad C,	Corrosion Inhibitor	1	Took Report, Case Closed 09-30-05		Equipment Failure
10/20/05	05399929301	BPXA	y	Drill Site L-3,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 10-21-05		Valve Failure
10/21/05	05399929402	BPXA	y	DS 16,	Corrosion Inhibitor	1	Field Visit/s, Case Closed 10-24-05		Valve Failure
10/22/05	05399929501	ASRC Energy Ser (formerly APC)	y	Well Pad D,	Corrosion Inhibitor	1	Field Visit/s, Case Closed 10-25-05		Human Error
10/25/05	05399929801	BPXA	y	W PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 11-02-05		Seal Failure
10/26/05	05399929902	ASRC Energy Ser (formerly APC)	y	E PAD,	Corrosion Inhibitor	1	Took Report, Case Closed 11-02-05		Valve Failure
10/28/05	05399930102	ASRC Energy Ser (formerly APC)	y	Drill Site 6,	Corrosion Inhibitor	1	Took Report, Final Report 10-31-05		Seal Failure
11/16/05	05399932002	BPXA	y	Well Pad L,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-02-05		Seal Failure
11/19/05	05399932301	ASRC Energy Ser (formerly APC)	y	Well Pad H,	Corrosion Inhibitor	1	Took Report, Case Closed 11-28-05		Valve Failure
11/30/05	05399933401	ASRC Energy Ser (formerly APC)	y	Well Pad H,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 12-06-05		Equipment Failure
11/30/05	05399933402	ASRC Energy Ser (formerly APC)	y	Well Pad K,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 01-06-06		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
11/30/05	05399933403	BPXA	y	Prudhoe Bay Operations Center (PBOC),	Sulfuric Acid	1	Field Visit/s, Case Closed 12-07-05		Other
12/7/05	05399934102	ASRC Energy Ser (formerly APC)	y	Well Pad Y,	Corrosion Inhibitor	1	Phone Follow-up, Case Closed 01-06-06		Valve Failure
12/10/05	05399934401	BPXA	y	Well Pad V,	Other	1	Took Report, Case Closed 12-12-05		Puncture
12/20/05	05399935401	BPXA	y	West Gas Injection,	Diesel	1	Took Report, Case Closed 12-23-05		Leak
12/24/05	05399935801	BPXA	y	Well Pad N,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 12-27-05		Unknown
1/7/06	06399900702	BPXA	y	West Gas Injection,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 01-13-06		Equipment Failure
1/10/06	06399901003	BPXA	y	Central Compressor Plant (CCP),	Sulfuric Acid	1	Phone Follow-up, Case Closed 01-11-06		Leak
1/16/06	06399901601	BPXA	y	Waste Handling Facility, BPXA lead-acid battery	Acid, Other	1	Phone Follow-up, Case Closed 01-24-06		Cargo Not Secured
2/19/06	06399905002	BPXA	y	E PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 02-21-06		Leak
2/28/06	06399905901	ASRC Energy Ser (formerly APC)	y	Well Pad C,	Corrosion Inhibitor	1	Took Report, Case Closed 06-26-06		Valve Failure
3/2/06	06399906102	BPXA	y	Seawater Injection Plant (SIP),	Seawater	1	Took Report, Case Closed 03-05-06		Line Failure
3/5/06	06399906402	ASRC Energy Ser (formerly APC)	y	c Pad,	Corrosion Inhibitor	1	Took Report, Case Closed 03-07-06		External Factors
3/7/06	06399906604	ASRC Energy Ser (formerly APC)	y	PAD 10,	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 03-13-06		Human Error
3/9/06	06399906803	BPXA	y	Gathering Center 2 (GC-2),	Propylene Glycol	1	Took Report, Case Closed 03-09-06		Vehicle Leak, All
3/19/06	06399907801	BPXA	y	NGI,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 03-28-06		Valve Failure
3/24/06	06399908301	BPXA	y	Drill Site 18,	Diesel	1	Took Report, Case Closed 03-31-06		Line Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
3/27/06	06399908601	BPXA	y	Drill Site 1 (DS-1),	Methyl Alcohol (Methanol)	1	Took Report, Final Report 03-31-06		Line Failure
3/30/06	06399908906	BPXA	y	POINT MCINTYRE, PM 2, EOA Pt Mcintyre-2 Mod 4923	Sulfuric Acid	1	Took Report, Case Closed 04-05-06		Crack
4/2/06	06399909201	BPXA	y	Well Pad P,	Corrosion Inhibitor	1	Took Report, Case Closed 04-04-06		Other
4/20/06	06399911003	BPXA	y	Well Pad C,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 04-24-06		Valve Failure
5/3/06	06399912301	BPXA	y	L-1 Module,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-05-06		Valve Failure
5/9/06	06399912903	BPXA	y	Drill Site L-3,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-10-06		Seal Failure
5/11/06	06399913101	BPXA	y	Flow Station 2 (FS-2),	Corrosion Inhibitor	1	Took Report, Case Closed 05-17-06		Gauge/Site Glass Failure
5/11/06	06399913102	BPXA	y	DS 16,	Corrosion Inhibitor	1	Took Report, Case Closed 05-11-06		Unknown
5/12/06	06399913201	BPXA	y	W PAD,	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 05-15-06		Seal Failure
5/19/06	06399913901	ASCI	y	c Pad,	Other	1	Phone Follow-up, Case Closed 05-22-06		Puncture
5/21/06	06399914101	BPXA	y	Drill Site 6,	Other	1	Took Report, Case Closed 05-23-06		Puncture
5/24/06	06399914401	BPXA	y	Flow Station 3 (FS-3),	Unknown	1	Phone Follow-up, Case Closed 07-10-06		Leak
5/27/06	06399914702	BPXA	y	Gathering Center 2 (GC-2), Followup Sheen from Spill in March	Crude	1	Took Report, Case Closed 05-30-06		Other
6/10/06	06399916101	BPXA	y	Well Pad S,	Corrosion Inhibitor	1	Took Report, Case Closed 06-12-06		Line Failure
6/13/06	06399916401	BPXA	y	U-09 (Fabrication Shop),	Hydraulic Oil	1	Phone Follow-up, Case Closed 06-19-06		Line Failure
6/19/06	06399917001	BPXA	y	Well Pad D,	Corrosion Inhibitor	1	Took Report, Case Closed 06-20-06		Human Error
6/21/06	06399917202	ASRC Energy Ser (formerly APC)	y	Flow Station 2 (FS-2), Truck Rollover on road to FS 2	Hydraulic Oil	1	Field Visit/s, Case Closed 07-13-06		Rollover/Capsize

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/22/06	06399917302	BPXA	y	Drill Site 1 (DS-1),	Crude	1	Took Report, Case Closed 07-10-06		Seal Failure
6/22/06	06399917302	BPXA	y	Drill Site 1 (DS-1),	Diesel	1	Took Report, Case Closed 07-10-06		Seal Failure
6/27/06	06399917802	ASRC Energy Ser (formerly APC)	y	Well Pad S,	Corrosion Inhibitor	1	Took Report, Case Closed 06-30-06		Line Failure
6/29/06	06399918001	ASRC Energy Ser (formerly APC)	y	Well Pad J,	Corrosion Inhibitor	1	Took Report, Case Closed 06-30-06		Unknown
10/6/06	06399927901	BPXA	y	West Prudhoe Bay SPINE RD,	Engine Lube Oil	1	Took Report, Case Closed 10-12-06		Rollover/Capsize
10/6/06	06399927901	BPXA	y	West Prudhoe Bay SPINE RD,	Transmission Oil	1	Took Report, Case Closed 10-12-06		Rollover/Capsize
10/8/06	06399928103	BPXA	y	Drill Site 11,	Hydraulic Oil	1	Phone Follow-up, Complaint/Report Received 10-11-06		Human Error
10/9/06	06399928204	ASRC Energy Services	y	Drill Site 6,	Corrosion Inhibitor	1	Phone Follow-up, Final Report 10-11-06		Seal Failure
10/19/06	06399929201	HALLIBURTON	ym	SPINE ROAD, DEADHORSE,	Ethylene Glycol (Antifreeze)	1	Took Report, Complaint/Report Received 10-19-06		Equipment Failure
10/22/06	06399929503	ASRC Energy Services	y	Lisburne Production Center (LPC),	Diesel	1	Phone Follow-up, Complaint/Report Received 10-24-06		Line Failure
11/11/06	06399931501	BPXA	y	East Prudhoe Bay, DS 1, BP East Prudhoe Bay	Crude	1	Took Report, Case Closed 12-08-06		Equipment Failure
11/24/06	06399932801	ASRC Energy Services	y	East Prudhoe Bay, PAD 10., BP East Prudhoe Bay	Methyl Alcohol (Methanol)	1	Phone Follow-up, Case Closed 12-06-06		Equipment Failure
12/3/06	06399933701	ASRC Energy Services	y	c Pad,	Other	1	Phone Follow-up, Final Report 12-08-06		External Factors
12/15/06	06399934902	BPXA	y	Drill Site 14 well 31, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	1	Took Report, Case Closed 07-11-07		Valve Failure
12/17/06	06399935103	BPXA	ym	Pigging Workshop,	Hydraulic Oil	1	Took Report, Case Closed 07-20-07		Line Failure
12/23/06	06399935702	ASRC Energy Services	y	Well Pad F, BP West Prudhoe Bay	Corrosion Inhibitor	1	Took Report, Case Closed 12-26-06		Seal Failure
01/03/07	07399900302	ENI Petroleum	ym	Rock Flour, Rock Flour	Drilling Muds	1	Took Report, Case Closed 07-02-07		External Factors
01/19/07	07399901902	BPXA	y	c Pad, BP East Prudhoe Bay	Hydrochloric Acid	1	Phone Follow-up, Final Report 01-22-07		Crack
01/22/07	07399902201	BPXA	y	FLEET SHOP, BP East Prudhoe Bay	Engine Lube Oil	1	Took Report, Case Closed 02-09-07		Other

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
01/26/07	07399902601	BPXA	y	Main Construction Camp (MCC),	Sulfuric Acid	1	Phone Follow-up, Case Closed 02-28-07		Other
03/05/07	07399906403	BPXA	y	Gathering Center 1 (GC-1),	Transmission Oil	1	Took Report, Case Closed 03-09-07		Vehicle Leak, All
03/14/07	07399907302	FEX L.P.	ym	Lake M0629, FEX	Hydraulic Oil	1	Took Report, Case Closed 08-06-07		Equipment Failure
04/24/07	07399911403	BPXA	y	Gathering Center 2 (GC-2), BP West Prudhoe Bay	Crude	1	Took Report, Case Closed 05-01-07		Other
04/24/07	07399911403	BPXA	y	Gathering Center 2 (GC-2), BP West Prudhoe Bay	Source Water	1	Took Report, Case Closed 05-01-07		External Factors
04/26/07	07399911601	BPXA	y	Drill Site 2, Drill Site 2 Source Water Release	Other	1	Phone Follow-up, Complaint/Report Received 04-26-07		External Factors
05/07/07	07399912702	BPXA	y	Drill Site 4,	Engine Lube Oil	1	Took Report, Complaint/Report Received 05-21-07		Other
06/07/07	07399915802	BPXA	y	Drill Site 2, BP East Prudhoe Bay	Corrosion Inhibitor	1	Took Report, Final Report 06-12-07		Line Failure
06/10/07	07399916103	BPXA	y	South Hanger, BP East Prudhoe Bay	Hydraulic Oil	1	Took Report, Case Closed 06-18-07		Human Error
07/19/07	07399920002	Colville Inc/Phillips Alaska	y	Drill site 12, Coleville Inc.	Unknown	1	Took Report, Complaint/Report Received 07-19-07		Unknown
07/31/07	07399921202	BPXA	y	Well Pad F,	Diesel	1	Took Report, Complaint/Report Received 08-09-07		Leak
08/01/07	07399921301	BPXA	y	East Prudhoe Bay, DRILL SITE 17,	Crude	1	Took Report, Case Closed 08-29-07		Seal Failure
08/14/07	07399922601	BPXA	y	Well Pad G,	Hydrochloric Acid	1	Took Report, Case Closed 08-21-07		Seal Failure
08/14/07	07399922602	BPXA	y	Well Pad G,	Hydraulic Oil	1	Took Report, Complaint/Report Received 08-15-07		Seal Failure
10/04/07	07399927701	BPXA	Y	Flow Station 2 (FS-2), Flow Station 2 (FS-2)	Other	1	Took Report, Complaint/Report Received 10-08-07		Line Failure
11/13/07	07399931701	BPXA	Y	Drill Site 6, Drill Site 6	Corrosion Inhibitor	1	Took Report, Case Closed 11-15-07		Equipment Failure
08/26/07	07399923801	ASRC Energy Services	y	Well Pad D, BP-West	Corrosion Inhibitor	0.75	Took Report, Final Report 09-04-07		Seal Failure
02/01/07	07399903204	ENI Petroleum	ym	Rock Flour, Eni Petroleum	Diesel	0.625	Took Report, Case Closed 08-21-07		Equipment Failure
06/02/07	07399915305	BPXA	y	Point McIntyre #1, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	0.62	Took Report, Case Closed 06-20-07		Leak
8/11/06	06399922302	ASRC Energy Ser (formerly APC)	y	Well Pad H,	Corrosion Inhibitor	0.5	Took Report, Case Closed 08-14-06		Seal Failure
9/2/06	06399924504	ASRC Energy Services	y	West Prudhoe Bay, Well Pad E,	Corrosion Inhibitor	0.5	Took Report, Case Closed 07-12-07		Valve Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/9/06	06399925202	BPXA	ym	Field Ops Center (FOC),	Other	0.5	Took Report, Case Closed 09-14-06		Human Error
01/27/07	07399902701	BPXA	y	Gathering Center 2 (GC-2),	Methyl Alcohol (Methanol)	0.5	Took Report, Case Closed 02-05-07		Leak
03/16/07	07399907502	BPXA	y	Well Pad A, BP West Prudhoe Bay	Corrosion Inhibitor	0.5	Took Report, Case Closed 04-25-07		Human Error
03/19/07	07399907807	BPXA	y	Drill Site 18, BP East Prudhoe Bay	Corrosion Inhibitor	0.5	Took Report, Case Closed 07-13-07		Leak
04/01/07	07399909102	BPXA	y	Well Pad H, BP West Prudhoe Bay	Methyl Alcohol (Methanol)	0.5	Took Report, Case Closed 04-03-07		Leak
05/13/07	07399913301	BPXA	y	Well Pad W, BP West Prudhoe Bay	Methyl Alcohol (Methanol)	0.5	Took Report, Interim Report 05-13-07		Valve Failure
05/16/07	07399913602	BPXA	y	Well Pad X,	Other	0.5	Took Report, Final Report 05-18-07		Vehicle Leak, All
05/19/07	07399913905	BPXA	y	FLEET SHOP,	Sulfuric Acid	0.5	Took Report, Final Report 05-24-07		Other
05/23/07	07399914302	BPXA	y	Well Pad S,	Methyl Alcohol (Methanol)	0.5	Took Report, Case Closed 07-24-07		Equipment Failure
06/02/07	07399915302	BPXA	y	East Prudhoe Bay, DRILLSITE 9, BP East Prudhoe Bay	Corrosion Inhibitor	0.5	Took Report, Case Closed 06-04-07		Seal Failure
07/12/07	07399919301	ASRC Energy Services	y	Well Pad D,	Corrosion Inhibitor	0.5	Took Report, Case Closed 07-16-07		Equipment Failure
07/14/07	07399919501	BPXA	y	Drill Site 11,	Corrosion Inhibitor	0.5	Took Report, Complaint/Report Received 07-14-07		Other
09/08/07	07399925101	BPXA	y	Gathering Center 2 (GC-2),	Corrosion Inhibitor	0.5	Took Report, Case Closed 09-12-07		Valve Failure
09/13/07	07399925601	BPXA	y	Well Pad D, BP-West	Methyl Alcohol (Methanol)	0.5	Took Report, Case Closed 09-19-07		Seal Failure
10/02/07	07399927501	BPXA	Y	Main Construction Camp (MCC), Main Construction Camp (MCC)	Engine Lube Oil	0.5	Phone Follow-up, Case Closed 10-08-07		Other
10/02/07	07399927501	BPXA	Y	Main Construction Camp (MCC), Main Construction Camp (MCC)	Sulfuric Acid	0.5	Phone Follow-up, Case Closed 10-08-07		Other
02/01/07	07399903205	ENI Petroleum	ym	Rock Flour, Eni Petroleum	Diesel	0.375	Took Report, Case Closed 08-21-07		Equipment Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
07/06/07	07399918701	BPXA	y	Well Pad J,	Other	0.26	Took Report, Case Closed 08-02-07		Equipment Failure
9/13/05	05399925602	BPXA	y	Drill Site 6, BP-East	Corrosion Inhibitor	0.25	Phone Follow-up, Case Closed 08-31-06		Equipment Failure
7/31/06	06399921201	BPXA	y	Well Pad Z,	Methyl Alcohol (Methanol)	0.25	Took Report, Case Closed 07-31-06		Unknown
9/2/06	06399924503	ALASKA WEST EXPRESS	y	c Pad,	Methyl Alcohol (Methanol)	0.25	Took Report, Case Closed 09-07-06		Valve Failure
9/3/06	06399924603	BPXA	y	Flow Station 3 (FS-3),	Corrosion Inhibitor	0.25	Took Report, Case Closed 09-07-06		Line Failure
10/23/06	06399929602	BPXA	y	West Prudhoe Bay, Well Pad U, BP West Prudhoe Bay	Methyl Alcohol (Methanol)	0.25	Took Report, Case Closed 10-26-06		Leak
11/23/06	06399932702	BPXA	y	Point McIntyre #1, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	0.25	Phone Follow-up, Case Closed 12-06-06		Leak
11/26/06	06399933002	ASRC Energy Services	y	Well Pad F, BP West Prudhoe Bay	Corrosion Inhibitor	0.25	Took Report, Final Report 11-28-06		Valve Failure
12/26/06	06399936001	ASRC Energy Services	y	Well Pad F, BP West Prudhoe Bay	Methyl Alcohol (Methanol)	0.25	Took Report, Case Closed 07-12-07		Equipment Failure
12/26/06	06399936003	ASRC Energy Ser (formerly APC)	y	Well Pad F, BP West Prudhoe Bay	Methyl Alcohol (Methanol)	0.25	Took Report, Complaint/Report Received 12-26-06		Equipment Failure
01/15/07	07399901502	ASRC Energy Services	y	Drill Site 15,	Corrosion Inhibitor	0.25	Phone Follow-up, Case Closed 02-28-07		Human Error
02/26/07	07399905702	BPXA	ym	EWE Pipeline,	Hydraulic Oil	0.25	Took Report, Case Closed 03-30-07		Seal Failure
03/07/07	07399906601	ASRC Energy Ser (formerly APC)	y	Well Pad J,	Corrosion Inhibitor	0.25	Took Report, Case Closed 03-09-07		Equipment Failure
03/21/07	07399908003	BPXA	y	Gathering Center (GC) 3,	Corrosion Inhibitor	0.25	Took Report, Case Closed 04-25-07		Valve Failure
04/07/07	07399909701	BPXA	y	Well Pad F, BP West Prudhoe Bay	Crude	0.25	Took Report, Final Report 04-12-07		Equipment Failure
04/09/07	07399909903	BPXA	y	Drill Site 14, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	0.25	Took Report, Case Closed 05-02-07		Seal Failure

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
04/23/07	07399911302	BPXA	y	Well Pad S, BP West Prudhoe Bay	Corrosion Inhibitor	0.25	Took Report, Case Closed 07-24-07		Equipment Failure
05/01/07	07399912101	BPXA	y	Point McIntyre #1, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	0.25	Took Report, Final Report 05-02-07		Leak
05/12/07	07399913203	Acuren (formerly Canspec)	y	Main Construction Camp (MCC),	Sulfuric Acid	0.25	Took Report, Case Closed 05-14-07		Explosion
06/11/07	07399916201	BPXA	y	Flow Station 3 (FS-3), BP East Prudhoe Bay	Emulsion Breaker	0.25	Took Report, Case Closed 06-13-07		Equipment Failure
06/12/07	07399916302	ASRC Energy Services	y	West Prudhoe Bay, Well Pad U, BP West Prudhoe Bay	Corrosion Inhibitor	0.25	Took Report, Case Closed 06-13-07		Human Error
08/05/07	07399921701	ASRC Energy Ser (formerly APC)	y	c Pad,	Corrosion Inhibitor	0.25	Took Report, Case Closed 08-16-07		Overfill
11/06/07	07399931001	BPXA	Y	Drill Site 11, Drill Site 11	Corrosion Inhibitor	0.25	Took Report, Case Closed 11-07-07		Valve Failure
12/25/06	06399935901	ASRC Energy Services	y	Well Pad Z, BP West Prudhoe Bay	Hydrochloric Acid	0.2	Took Report, Case Closed 12-26-06		Seal Failure
10/20/07	07399929302	BPXA	Y	Flow Station 2 (FS-2), Flow Station 2 (FS-2)	Hydraulic Oil	0.2	Took Report, Case Closed 10-29-07		Collision/Allision
01/25/07	07399902503	ASRC Energy Services	y	Lisburne Production Center (LPC),	Other	0.15	Phone Follow-up, Final Report 01-30-07		Human Error
11/15/05	05399931901	ASRC Energy Ser (formerly APC)	y	c Pad,	Corrosion Inhibitor	0.13	Phone Follow-up, Case Closed 11-28-05		Human Error
04/21/07	07399911103	BPXA	ym	Please pick selection..., BP West Prudhoe Bay	Methyl Alcohol (Methanol)	0.13	Took Report, Case Closed 04-24-07		Leak
05/24/07	07399914402	BPXA	ym	SPINE ROAD, DEADHORSE,	Methyl Alcohol (Methanol)	0.13	Took Report, Final Report 05-25-07		Human Error
06/15/07	07399916602	ASRC Energy Services	y	Drill Site 12, BP East Prudhoe Bay	Corrosion Inhibitor	0.13	Took Report, Case Closed 06-20-07		Other
07/14/07	07399919502	ASCI	y	MOWF STORES,	Sulfuric Acid	0.13	Took Report, Final Report 07-16-07		Overfill
09/11/07	07399925405	BPXA	y	Well Pad S, BP-West	Other	0.13	Took Report, Case Closed 09-17-07		Human Error
09/20/07	07399926301	BPXA	y	Gathering Center 2 (GC-2),	Hydrochloric Acid	0.13	Took Report, Final Report 09-24-07		Explosion
9/6/05	05399924902	BPXA	y	Drill Site 6, BP-East	Corrosion Inhibitor	0.125	Took Report, Case Closed 09-18-07		Leak

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
9/24/06	06399926702	BPXA	y	Flow Station 3 (FS-3),	Emulsion Breaker	0.125	Took Report, Case Closed 10-09-06		Equipment Failure
12/19/06	06399935302	BPXA	y	Drill Site 12, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	0.125	Took Report, Case Closed 07-11-07		Seal Failure
12/22/06	06399935602	BPXA	y	Drill Site 6 well 8, BP East Prudhoe Bay	Methyl Alcohol (Methanol)	0.125	Took Report, Case Closed 12-26-06		Valve Failure
02/06/07	07399903702	VECO ALASKA, INC.	y	Well Pad D, BP West Prudhoe Bay	Corrosion Inhibitor	0.12	Took Report, Final Report 02-07-07		Other
04/03/07	07399909301	ASRC Energy Services	y	Well Pad N, BP West Prudhoe Bay	Corrosion Inhibitor	0.12	Took Report, Interim Report 04-03-07		Leak
6/6/04	04399915803	BPXA	y	Drill Site 13,	Crude	0.1	Took Report, Case Closed 06-29-07		Unknown
6/9/06	06399916002	BPXA	y	Well Pad L,	Other	0.1	Took Report, Case Closed 09-17-06		Other
04/04/07	07399909402	BPXA	y	Drill Site 18, BP East Prudhoe Bay	Corrosion Inhibitor	0.1	Took Report, Case Closed 05-02-07		Leak
05/12/07	07399913201	BPXA	y	Gathering Center 2 (GC-2),	Methyl Alcohol (Methanol)	0.1	Took Report, Case Closed 07-12-07		Leak
07/08/07	07399918902	BPXA	y	West Dock,	Diesel	0.1	Took Report, Final Report 07-12-07		Human Error
09/03/07	07399924602	ASRC Energy Services	y	Well Pad J,	Corrosion Inhibitor	0.1	Took Report, Final Report 09-04-07		Valve Failure
10/06/07	07399927902	BPXA	Y	East Prudhoe Bay, East Prudhoe Bay	Other	0.1	Took Report, Complaint/Report Received 10-08-07		Other
10/12/07	07399928501	BPXA	Y	GPMA drillsites, GPMA drillsites	Methyl Alcohol (Methanol)	0.1	Took Report, Case Closed 10-15-07		Leak
06/27/07	07399917802	BPXA	y	Flow Station 3 (FS-3), BP East Prudhoe Bay	Corrosion Inhibitor	0.075	Took Report, Case Closed 07-02-07		Line Failure
7/24/06	06399920501	BPXA	y	Well Pad J,	Corrosion Inhibitor	0.063	Took Report, Case Closed 07-25-06		Line Failure
7/29/06	06399921001	BPXA	y	Well Pad S,	Corrosion Inhibitor	0.063	Took Report, Case Closed 08-01-06		Line Failure
8/22/06	06399923402	BPXA	y	c Pad,	Sulfuric Acid	0.063	Took Report, Case Closed 08-25-06		Unknown
10/20/06	06399929303	BPXA	y	GPB C-Pad Warehouse,	Other	0.063	Took Report, Case Closed 07-11-07		Leak
02/09/07	07399904003	ENI Petroleum	ym	Rock Flour, Eni Petroleum	Other	0.063	Took Report, Case Closed 08-21-07		Puncture

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
09/11/07	07399925401	BPXA	y	Drill Site 14,	Methyl Alcohol (Methanol)	0.063	, Complaint/Report Received 09-11-07		Valve Failure
10/29/07	07399930201	BPXA	Y	East Prudhoe Bay, BP ENDICOTT., East Prudhoe Bay, BP ENDICOTT.	Other	0.063	Phone Follow-up, Case Closed 11-06-07		Corrosion
9/17/06	06399926002	BPXA	y	Hot Water Plant,	Other	0.06	Took Report, Complaint/Report Received 09-19-06		Human Error
12/23/06	06399935703	ASRC Energy Services	y	Well Pad F, BP West Prudhoe Bay	Corrosion Inhibitor	0.06	Took Report, Case Closed 12-26-06		Leak
12/26/06	06399936002	ASRC Energy Services	y	Well Pad F,	Methyl Alcohol (Methanol)	0.06	Took Report, Complaint/Report Received 12-26-06		Equipment Failure
03/30/07	07399908902	ASRC Energy Services	y	PRICE PAD, WOA,	Sulfuric Acid	0.06	Took Report, Case Closed 04-09-07		Crack
06/19/07	07399917001	BPXA	y	West Prudhoe Bay, Well Pad U, BP West Prudhoe Bay	Corrosion Inhibitor	0.06	Took Report, Final Report 06-22-07		Seal Failure
09/11/07	07399925404	BPXA	y	Drill Site 14,	Methyl Alcohol (Methanol)	0.05	Took Report, Complaint/Report Received 09-12-07		Valve Failure
09/12/07	07399925503	BPXA	y	East Prudhoe Bay, PAD 10., BP-East	Sulfuric Acid	0.04	Took Report, Complaint/Report Received 09-18-07		Other
12/1/06	06399933502	BPXA	y	Drill Site 15,	Methyl Alcohol (Methanol)	0.033	Took Report, Final Report 12-08-06		Leak
08/17/07	07399922901	ASRC Energy Ser (formerly APC)	y	Well Pad N,	Corrosion Inhibitor	0.031	Took Report, Case Closed 08-21-07		Seal Failure
03/26/07	07399908502	BPXA	y	Seawater Injection Plant (SIP),	Other	0.03	Took Report, Case Closed 04-06-07		Line Failure
05/19/07	07399913903	ASRC Energy Services	y	Well Pad H,	Corrosion Inhibitor	0.03	Took Report, Case Closed 05-21-07		Leak
11/3/06	06399930701	BPXA	y	Drill Site 14,	Corrosion Inhibitor	0.025	Phone Follow-up, Final Report 11-09-06		Gauge/Site Glass Failure
11/02/07	07399930601	BPXA	Y	Drill Site 6, Drill Site 6	Corrosion Inhibitor	0.025	Took Report, Complaint/Report Received 11-05-07		Equipment Failure
12/19/06	06399935303	ASRC Energy Services	y	Well Pad J,	Corrosion Inhibitor	0.02	Phone Follow-up, Final Report 02-01-07		Valve Failure
05/22/07	07399914202	ASRC Energy Services	y	c Pad, BP East Prudhoe Bay	Corrosion Inhibitor	0.02	Took Report, Case Closed 05-23-07		Equipment Failure
07/10/07	07399919102	BPXA	y	Point McIntyre #1,	Sulfuric Acid	0.02	Took Report, Case Closed 08-01-07		Crack

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
09/12/07	07399925501	BPXA	y	PAD 10,	Sulfuric Acid	0.016	Took Report, Final Report 09-13-07		Equipment Failure
12/15/06	06399934901	BPXA	y	Drill Site 5,	Methyl Alcohol (Methanol)	0.01	Phone Follow-up, Case Closed 01-04-07		Seal Failure
10/02/07	07399927502	BPXA	Y	West Prudhoe Bay, West Prudhoe Bay	Other	0.01	Took Report, Case Closed 10-08-07		Other
10/13/06	06399928604	BPXA	y	Well Pad D,	Corrosion Inhibitor	0.008	Took Report, Case Closed 10-16-06		Line Failure
7/30/06	06399921103	BPXA	y	Well Pad J,	Corrosion Inhibitor	0.004	Took Report, Case Closed 08-01-06		Line Failure
9/19/06	06399926202	BPXA	y	Well Pad N, Well Pad N Sheen	Unknown	0.001	Field Visit/s, Case Manager Assigned 07-06-07		Line Failure
05/21/07	07399914102	ASRC Energy Services	y	Drill Site 14, BP East Prudhoe Bay	Corrosion Inhibitor	0.001	Took Report, Interim Report 05-21-07		Leak
3/22/76	76360108201	ARCO Alaska, Inc.	y	PRUDHOE BAY COTU LOADING DOCK,	Unknown	0		Incinerated	
3/31/81	81360109001	ARCO Alaska, Inc.	y	FS 1, Area 100 x 100 ft about 20 ft below ground	Diesel	0	Allowing diesel to seep into piling hole and vacuuming out. water and diesel to be injected.	Subsurface Injection	Entered 9-28-89 from old records. Qty. unknown. While drilling pilot holes near FS 1, diesel detected. Could be from "old" flow station originally near location.
5/13/81	81360113301	Sohio	y	Mobile Well Site 7-11-12, Not given.	Crude	0	Not given.	Not Given	Entered 10-26-89 from old records. Amount unknown.
6/8/81	81360115903	ARCO Alaska, Inc.	y	DS 15, north edge of pad, Edge of gravel on DS pad	Diesel	0	Trench built, lined with absorbents. sorbents to nsb incinerator.	Incinerated	Entered 10-27-89 from old records. Leaked from camp fuel tank or line.
6/30/81	81360118102	ARCO Alaska, Inc.	m	Geofoam Building, Contained in ground insulation inside building	Unknown	0	Excavation.	Not Given	Entered 10-27-89 from old records.
8/6/81	81360121801	Sohio	y	GC 3, flare pad, Prudhoe, Tundra	Crude	0	Not given.	Not Given	Entered 10-31-89 from old records. Light spray over tundra, no amounts given. Follow up 8-7 and 9-2-81.
8/9/81	81360122102	ARCO Alaska, Inc.	y	Sag River Bridge about 3 miles below DS 4, Sheen on Sag River	Unknown	0	Trapped some oil on absorbents spread on river bank.	Not Given	Entered 10-31-89 from old records. Follow up 8-18-81 and 1-8-82. Sheen source and size unknown. Possible cause truck accident previous week.
9/6/81	81360124902	Sohio	y	Y Pad, Prudhoe, Not given.	Diesel	0	Not given.	Not Given	Entered 11-20-89 from old records. Follow up 10-8 and 9-9-81. Amount unknown.
3/15/83	83360107401	Unknown	m	Spur Rd. Near C 1, Unknown	Waste crankcase	0	Scraped up snow and burned.	Incinerated	Amount: 1/2 gal.Entered from old records 6/20/90.
6/8/83	83360115904	ARCO Alaska, Inc.	y	DS 18, Prudhoe, Unknown	Drilling muds	0	Contaminated snow removed.	Not Given	Amount: Unknown. Entered from old records 6/26/90.
9/7/85	85360925301	SOHIO	y	S Pad Well #S-6,	Acid	0	Neutralized with soda ash/picked up		

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
6/16/86	86360116702	ARCO Alaska, Inc.	y	DS 14, Pit 7,	Drilling muds	0	Unknown at this time	Unknown	
6/24/86	86360117502	Sohio Alaska Petroleum Company	y	C Pad,	Drilling muds	0	Containment boom placed along edge of lake	Multiple/see Comments	Will be placed in C Pad, N.W.Pit/GC-3 Ullage system
2/11/87	87360104201		m	Winter TRails Ice Road,	Unknown	0			Report incomplete
2/16/87	87360904701	ARCO Alaska, Inc.	y	C Pad Warehouse,	Glycol	0	Presently contained in lined dike	Interim Containment	
6/7/87	87360115801	ARCO Alaska, Inc.	y	Surfcote tank farm,	Diesel (light sheen)	0	Skimmed oil/removed water	Recycled	
1/3/88	88360100301	Standard Alaska Production Com	y	R-23,	Borox/bentonite	0	Contaminants scraped up	Approved Landfill	Borox - 140 lb, Bentonite - 80 lb.
1/31/88	88360103102	Dowell Schlumberger	m	pad under cement bulk tank,	Class g cement	0	Cleaned	Approved Landfill	taken to landfill during week of 6/21/88-6/28/88
2/28/88	88360105904	Dowell Schlumberger	m	Eastern edge of storage pad, on pad	Bentonite (clay)	0	Removed gravel	Approved Landfill	4 cu yards of bentonite
2/28/88	88360105905	Dowell Schumberger	m	sw corner of drum storage pad, gravel pad	Unknown	0	Remove top 4 inches of gravel and replace with new	Other	Chemical on top of drum.
6/5/88	88360915501	ARCO Alaska, Inc.	y	Crude Oil Topping Unit,	Unknown	0			disposal of waste liquids alleged at flare pits
6/8/88	88360115803	Dowell Schlumberger	m	SW corner of DS pad,	Proppent	0	Picked up	Approved Landfill	3000 lb. super bag of low density proppent
6/15/88	88360116708	VECO	m	old VECO base/mechanics shop, under mechanics shop	Used Oil (all types)	0	Unable to proceed until ice melts	Incineration/approved Landfill	used oil, unknown amount
6/18/88	88360116805	Veco, Inc.	m	behind VECO shop, on pad	Diesel	0	Excavated 5 yds contaminated gravel	Approved Landfill	vac truck operator hook-up caused line spillage. Mix diesel/crude
6/18/88	88360116806	Veco, Inc.	m	Old VECO Base fuel dock, on pad	Diesel	0	Temp. recep. under valve/empty tank/scoop gravel	Approved Landfill	unknown amt. diesel from leaking valve
6/26/88	88360117804	ARCO Alaska, Inc.	y	DS 15,	Unknown	0	Loader to be used to deposit back into reserve pit	Other	Cause:Dropped but out of heavy equip.Oiltype:muds/cuttings
7/9/88	88360119105	SAPCO	y	C 7, contained on pad	Draining fluid additives	0	Sorbents used to soak up fluids/gravel removed	Approved Landfill	camlock fitting blew off tank during coil tubing work on C-7
7/24/88	88360120406	Dowell Schlumberger	m	sw corner of pad/drum storage, on pad	Unknown	0	Remove 4 inches of gravel and replace with new	Other	small amount of chemicals on top of drums ran down side when tilted
1/11/89	89360101101	Texaco Inc.	m	Wolfbutton 25-6-9, ice in bermed basin	Drilling muds	0	Chipped ice daily until all picked up		Sink drain hose discharged directly to the ice pad
6/16/89	89360916701	Dowell Schlumberger	m	SW corner DS Pad, Prudhoe, 1'x1'x2in deep 3 areas on gravel pad	Other	0	Scooped up all dirt, put in plastic container. will be disposed of after lab analysis.	Unknown	Unknown product spilled sometime during winter. Sample sent to lab for analysis. Rec'd final 8-31-89. Substance potassium dichromate shipped to Seattle. DS has not rec'd final papers on shipment yet.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
7/7/89	89360118801	Dowell Schlumberger	m	Under main DS shop--Prudhoe, Contained on gravel under building	Other	0	Absorbents being laid on spill on ongoing basis. as used, being put in nsb burnable dumpster.	Incinerated	Water and trace of oil observed. Discovered leak in drain from shop, probably occurred during winter. Will take most of summer for complete melt. Cannot determine amount of spill or cleanup at this time. Final contained no further information.
8/13/89	89360122501	ARCO Alaska, Inc.	y	MCC Pad old diesel tank storage area near Bldg U 11, Contained on pad	Diesel	0	Gravel picked up, taken to nsb sowp	Approved Landfill	Two previously decommissioned tanks dismantled. When tank liner removed, contaminated gravel found along low points of liner trench.
8/16/89	89360122803	ARCO Alaska, Inc.	y	Pad 3 Oily Waste Pit,	Other	0			Product: oily waste pit leachate, from leaky dikes. Spill on-going.
8/26/89	89360123804	Dowell Schlumberger	y	Back of DS yard at Prudhoe, Not given	Other	0	Bladed up and disposed of in solids box.	Interim Containment	Silica sand spilled (about 1000 lb) during sand blasting of tanks to be painted. 1000 lbs. recovered.
6/12/90	90360116301	ARCO Alaska, Inc.	y	East Dock, Pad	Unknown	0	Gravel removed. lab results confirmed non-hazardous. taken to pad 3.	Approved Landfill	Security observed spill. Source and quantity unknown.
6/29/90	90360118003	ARCO Alaska, Inc.	m	Stinson Well, Sheen on 20 x 30 ft open lead	Other	0	Absorbent booms deployed, skimmer removed sheen. liquids injected.	Subsurface Injection	Sheen on water near CIDS vessel noticed. Appeared to be either under ice or frozen in ice which was melting.
8/9/90	90360122103	ARCO Alaska, Inc.	y	SE Eileen State #1 & 2 Well site, 5.5 to 7 acres, unnamed lakes.	Crude	0	None determined as of 8-13-90. in depth study undertaken. cleanup planned for fall 1990. as of 8-27, no cleanup.	Unknown	Product appears to be weathered crude 1970 drilling. Oil base mud spread on pad. Covered with gravel. Tar covered bird found. Lakes near site probably rec'd runoff.
9/4/90	90360924701	Dowell Schlumberger	m	DS Warehouse, May be on ground	Acid	0	Unknown at present.	Unknown	Hazardous materials list in file.
1/4/91	91360900401	ARCO Alaska, Inc.	y	DS 9 manifold bldg., 50 x 30 ft snow	Methanol	0	Snow removed, melted, injected.	Subsurface Injection	Qty. given 100 yds snow, 1/4 yds gravel.
4/16/91	91360510601	Norcon	y	DS 7 off Oxbow Rd., Containment dike	Drilling muds	0	Excavated impoundment area by backhoe. material returned to reserve pit.	Recycled	103 cu yds 50% mud, 50% snow spilled when snow being removed and leveling at drill pit area. Not found until snow melted.
5/17/91	91360113701	Child's Equipment	m	Child's Pad Deadhorse, Gravel pad, ponds	Diesel	0	Peak had vac truck, bp digging trench for pooling, 2 booms along shoreline, sorbents in marshy grass.	Other	Abandoned site. Aboveground tank may be source. 2 ponded areas w/fuel on top, seeping from pad. 6/14/91 BP Ex cleaned up Pad. All left bermed contam. snow/gravel, ATCO, misc. equip.
12/2/91	91730133602	ARCO Alaska Inc.	y	DS 11 Well 22, Well cellar	Diesel	0	Recovering standing fluid as it returns to the cellar.	Not Given	On recorder. Suspect leak around well casing. Diesel found in 16" depression next to cellar.
12/29/91	91730136301	Camco	m	Spine Road, Deadhorse, Contained on frozen pad	Diesel	0	Snow/ice/gravel put in washbay to melt, separate. will incinerate diesel in waste oil burner, pads nsb incinerator.	Incinerated	Possibly broke pipe. Will dig up.

Table A-2
1971-11/15/2007 Spill Data - ADEC Recorded Releases
(Sorted By Volume)

Spill Date	ADEC Spill #	Responsible Party	PBU ?	Location, Area	Material Released	Volume Gal	Cleanup actions	Disposal	ADEC Comments
1/26/92	92730202601	ARCO Alaska Inc.	y	DS 9, Not given	Produced water	0	Work stopped. cleanup/disposal not given.	Not Given	

Notes for Tables A-1 and A-2

Notes for Table A-1 1970-11/15/2007 Spill Data - BPXA (Sorted by Volume)

1. Table was generated from a 11-15-07 printout from BPXA Tr@ction Database; it shows PBU records of releases through 11-15-07.

2. The "BP Tr@ction Report #" is the index key assigned by BPXA to track release event. The same Tr@ction Report # appears on multiple rows if different substances were released during a single event.

3. Due to page width limitations, Tr@ction Database fields for Location and Area were combined into a single column.

4. Due to row height limitations on displaying cells with large amounts of text, occasional edits were made of extraneous information (e.g. deleting excess "the's"). Obvious spelling errors were corrected when identified, but due to very frequent use of unusual acronyms (with numerous spelling variations), corrections were limited.

5. Recorded release volumes over 1,000 gallons were rounded to the nearest gallon, all smaller volumes show 2 decimal places.

6. Except as noted above, text in cells is as appears in Tr@ction Database.

Notes for Table A-2 1971-11/15/2007 Spill Data - ADEC Recorded Releases (Sorted by Volume)

1. The table was generated from two ADEC sources:

   - ADEC Excel Spill Tracking Worksheet for spills 1991-1995 (furnished by ADEC 10-12-07);

   - ADEC Spill Database Report for Spills 1995 through 11-15-07 (furnished by ADEC 10-12-07, updates furnished 11-30-07 and 12-13-07).

2. Records on 4 releases from 11-16-07 to 11-30-07 shown for info only; additional releases in this period may have occurred but not yet compiled by ADEC prior to generating 12-13-07 printout.

3. The "ADEC Spill # is an index key assigned by ADEC to track release event. The same ADEC Spill Number # appears on multiple rows if different substances were released during a single event.

4. The column titled "PBU?" addresses the degree of certainty as to whether the release was in area covered by PBU: "Y" = Appears to have occurred in PBU, "Y/M" = probably in PBU, but some uncertainty exists, "M" = may or may not be in PBU. Approximately 18,000 records of releases were furnished by ADEC and required review in order to identify those in PBU, as ADEC database records did show clear and consistent names for locations of release sites.

5. Occasional edits were made of extraneous information (e.g. deleting excess "the's"). Obvious spelling errors were corrected when identified, but due to very frequent use of unusual acronyms (with numerous spelling variations), corrections were limited.

6. Due to the use of different field names used to track the same information in its two Spill tracking systems, for consistency some fields were renamed and/or combined.

7. Except as noted above, text in cells was as it appeared in ADEC Spill database printouts.

APPENDIX B

PBU Environmental Permits & Orders Summary Tables

B-1: Water Discharge Permits

B-2: Solid Waste Permits

B-3: UIC Well Permits

B-4: Lease Operations & Land Use Permits

B-5: Orders

- Page Intentionally Left Blank -

APPENDIX B-1

LIST OF ENVIRONMENTAL PERMITS AND ORDERS INVOLVING WATER DISCHARGE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
AK0029840	Water	EPA	GPB	Active	USEPA letter dated 3/9/2005 deems renewal application complete; permit will be administratively extended if not re-issued by 4/25/2005	NPDES permit for STP discharge	4/24/2000	4/24/2005	
AKG330032	Water	EPA	GPB	Active		NPDES NOI for Put 23 Gravel Mine Gravel Pit Dewatering	2/19/2004	1/2/2009	
AKG330061	Water	EPA	GPB	Active		NPDES NOI for GPB Stormwater Discharge	2/19/2004	1/2/2009	
AKG570005	Water	EPA	GPB	Active		CSTF Domestic Wastewater Treatment Permit	7/21/2004	7/21/2009	
AKG570006;Modification Issued 8/29/2005	Water	EPA	GPB	Active		PBOC Domestic Wastewater Treatment Permit	10/1/2005	7/20/2009	

APPENDIX B-2

LIST OF ENVIRONMENTAL PERMITS AND ORDERS INVOLVING SOLID WASTE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
9536BA004	Waste	ADEC	GPB	Active	Permit renewal terminated. All monitoring required under permit is to continue until waste is excavated and final closure approval is issued.	ADEC Pad-3 Solid Waste Disposal Permit	3/15/1995	3/31/2000	Permit renewal terminated. All monitoring required under permit is to continue until waste is excavated and final closure approval is issued.
9621BA008 dated 4/28/2003;Renewal	Waste	ADEC	GPB	Active		G&I Solid Waste Treatment Facility-Ball mill and solids area	4/28/2003	4/30/2008	
NR1080	Waste	ADEC	GPB	Active		Sand Dunes Landfill (aka Surfcote) Monitoring	5/22/1980		
SWG0308001	Waste	ADEC	GPB	Active		CC2A Waste Storage Facility	5/21/2003	3/17/2008	
SWG0308002	Waste	ADEC	GPB	Active		W Pad Solid Waste Storage Cell	1/12/2004	3/17/2008	
SWG0308006	Waste	ADEC	GPB	Active		T Pad Waste Storage Cell	5/19/2004	3/17/2008	

APPENDIX B-3

LIST OF ENVIRONMENTAL PERMITS AND ORDERS INVOLVING UNDERGROUND INJECTION WELLS

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
401 Water Quality Certification dated 3/14/2000	Water	ADEC	GPB	Active		401 Certification for Prudhoe Bay Waterflood Operations	3/14/2000		Not clearly stated in permit
2004DB0084	Waste	ADEC	GPB	Active	Replaces ADEC Permit 48054	Pad 3 Wastewater Disposal Permit	7/16/2004	7/15/2009	
AK1I004A	Waste	EPA	GPB	Active		EPA Pad-3 UIC Class I permit	12/7/1999	12/7/2009	
Aquifer Exemption Order 1	Waste	AOGCC	GPB	Active		Aquifer Exemption Order Number 1 - WOA including K Pad area	7/11/1986		Not clearly stated in permit
Area Injection Order 4C	Waste	AOGCC	GPB	Active		All Class-II underground injection activities including reuse and disposal	3/23/2000		Not clearly stated in permit
Area Injection Order No. 3	Waste	AOGCC	GPB	Active			7/21/2006		
Area Injection Order No. 3.1	Waste	AOGCC	GPB	Active			8/15/2006		
Area Injection Order No. 3.2	Waste	AOGCC	GPB	Active			10/27/1986		

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
420010143	Lease Operations and Land Use	USACE	GPB	Active	Extended from 5/31/2004 by POA20011430	Eileen West End Site Closure	7/26/2001	5/31/2009	
9036BA008	Lease Operations and Land Use	ADEC	GPB	Active	Expired permit Active pending completion of task 17257 due 12/7/2007	East Sag Regional Solid Waste Disposal Permit - Facility Closure Monitoring Report	4/26/1991	4/26/1996	This is an ARCO permit that expired prior to the BPXA/ARCO merger. Facility monitoring closure report is the only stipulation entered in the matrix.
B8200003	Lease Operations and Land Use	USACE	GPB	Active		North Prudhoe Bay State No. 2 Exploratory Well Site Restoration	8/13/1992		
D20011332NWP27	Lease Operations and Land Use	USACE	GPB	Active		Kuparuk River State #1 Site Closure	12/20/2001		12/20/2003 unless the NWP authorization is modified, suspended, or revoked.

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
D20031484NWP27	Lease Operations and Land Use	USACE	GPB	Active		Northwest Eileen Site Closure	1/23/2004		1/23/2006 unless the NWP authorization is modified, suspended or revoked
LAS23316 Active amendments: Amendment dated 10/15/2001 Amendment dated 2/4/2004 Amendment dated 3/7/2002 Amendment dated 9/16/2002 Amendment email dated 5/12/2004 Effective 5/2/2006	Lease Operations and Land Use	ADNR	GPB	Active		Land use permit for materials storage activities at MPU and WOA	2/9/2001	12/19/2005	Extended from 5/1/2004 by ADNR Email dated 4/24/2004
			MPU	Active		Land use permit for materials storage activities at MPU and WOA			
LAS25219	Lease Operations and Land Use	ADNR	GPB	Active		Frontier Pad and Sea Air Motive Land Farming	6/15/2005	9/30/2006	
LAS25655	Lease Operations and Land Use	ADNR	GPB	Active		Gathering Center 2 Transit Line Spill Site Rehabilitation and Erosion Control Plan	4/13/2006	4/12/2011	

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
LONS05034 dated 3/23/2006	Lease Operations and Land Use	ADNR	GPB	Active		Kuparuk River State 1 Corrective Action	3/23/2006		March 23, 2009 if activities have not commenced
LONS0623 dated 1/16/2007	Lease Operations and Land Use	ADNR	GPB	Active		Hurl State 5-10-13 Pad Abandonment and Reserve Pit Closure	1/16/2007		1/16/2010 if activities have not commenced
LONS75167 dated 12/14/2005	Lease Operations and Land Use	ADNR	GPB	Active		Kuparuk 24-11-12/22-11-12 Pad Abandonment and Reserve Pit Closure	12/14/2005		12/14/2008 if activities have not commenced
LONS79128 dated 4/14/2006	Lease Operations and Land Use	ADNR	GPB	Active		Term Well A Exploration Pad Abandonment/Reserve Pit Closure	4/14/2006		4/14/2009 if activities have not commenced
LONS80142 dated 1/5/2007	Lease Operations and Land Use	ADNR	GPB	Active		Kuparuk 30-11-13 Pad Abandonment and Reserve Pit Closure	1/5/2007		1/4/2009 if activities have not commenced
LONS80209 dated 3/6/2006	Lease Operations and Land Use	ADNR	GPB	Active		Tract T-3C Exploration Pad Abandonment / Reserve Pit Closure	3/6/2006		3/6/2009 if activities have not commenced
LONS80272 dated 4/14/2005	Lease Operations and Land Use	ADNR	GPB	Active		Drill Site 9 Partial Abandonment	4/14/2005		5/14/2008 if activities have not commenced

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
LONS81193 dated 7/26/2005	Lease Operations and Land Use	ADNR	GPB	Active		A Pad Flowline Repairs/Dike Installation	7/26/2005		7/26/2008 if activities have not commenced
LONS82101 dated 6/16/1982	Lease Operations and Land Use	ADNR	GPB	Active		Drill Site 10 Waterflood Project	6/16/1982		Not specifically stated in permit.
LONS8462 dated 10/2/2007	Lease Operations and Land Use	ADNR	GPB	Active		Drill Site Lisburne 5 Pilot Gas Cap Water Injection	10/2/2007		10/2/2010 if activities have not commenced
LONS85008 dated 12/15/2003	Lease Operations and Land Use	ADNR	GPB	Active		W Pad Solid Waste Storage Cell	12/15/2003		12/15/2006 if activities have not commenced
LONS8610 dated 7/25/2005	Lease Operations and Land Use	ADNR	GPB	Active		Drill Site Lisburne 1 Reserve Pit Stabilization	7/25/2005		7/25/2008 if activities have not commenced
LONS8642 dated 4/4/2006	Lease Operations and Land Use	ADNR	GPB	Active		A Pad Flowline Repairs/Dike Installation	4/4/2006		4/4/2009 if activities have not commenced
LONS8642 dated 7/26/2005	Lease Operations and Land Use	ADNR	GPB	Active		A Pad Flowline Repairs/Dike Installation	7/26/2005		7/26/2008 if activities have not commenced

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
LONS8820 dated 5/15/2002	Lease Operations and Land Use	ADNR	GPB	Active		W Pad Seasonal Drilling Waste Fluids Storage	5/15/2002		5/15/2005 if activities have not commenced
LONS8960 dated 1/20/2006	Lease Operations and Land Use	ADNR	GPB	Active		Pad 3 Cells 1 and 2 Abandonment	1/20/2006		1/20/2009 if activities have not commenced
LONS8960 dated 4/20/2006	Lease Operations and Land Use	ADNR	GPB	Active		Pad 3 East End Abandonment	4/20/2006		4/20/2009 if activities have not commenced
LONS9147 dated 2/25/2003	Lease Operations and Land Use	ADNR	GPB	Active		Drill Site 17 Partial Abandonment	2/25/2003		2/25/2005 if activities have not commenced
M900266	Lease Operations and Land Use	USACE	GPB	Active		Kuparuk River activities permit modification	5/23/1991		

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
NSB01001	Lease Operations and Land Use	NSB	GPB	Active		Material storage at T-pad	7/14/2000		Valid for the duration of the existence of the development and the developer's compliance with permit terms and conditions.
NSB02262A	Lease Operations and Land Use	NSB	GPB	Active		W Pad Seasonal Drilling Waste Fluids Storage	5/19/2003		

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS
CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
NSB03113	Lease Operations and Land Use	NSB	GPB	Active		Drill Site 17 Partial Abandonment	2/13/2003		Permit is valid for the duration of the existence of the development and the developer's compliance with the terms and conditions herein. This authorization expires within 12 months of approval if no actual development has commenced.
NSB05177	Lease Operations and Land Use	NSB	GPB	Active		East Dock Land Farming	4/11/2005		Duration or 4/11/2006 if no development has commenced
NSB05179	Lease Operations and Land Use	NSB	GPB	Active		Building U-21 Area Remediation	4/12/2005		Duration or 4/12/2006 if no development has commenced

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
NSB05182	Lease Operations and Land Use	NSB	GPB	Active		Drill Site 9 Partial Abandonment	4/15/2005		Duration or 4/15/2006 if no development has commenced
NSB05197	Lease Operations and Land Use	NSB	GPB	Active		Frontier Pad and Sea Air Motive Land Farming	5/6/2005		Duration or 5/6/2006 if no development has commenced
NSB06013	Lease Operations and Land Use	NSB	GPB	Active		Drill Site Lisburne 1 Reserve Pit Stabilization	8/15/2005	8/15/2006	Duration or 8/15/2006, if no development has commenced
NSB06015	Lease Operations and Land Use	NSB	GPB	Active		Buried Containment at Hot Water Plant	7/26/2005		Duration or 7/26/2006 if no development has commenced
NSB06018	Lease Operations and Land Use	NSB	GPB	Active		Drill Site Lisburne 4 Reserve Pit Stabilization	8/15/2005	8/15/2006	Duration or 8/15/2006 if no development has commenced
NSB06020	Lease Operations and Land Use	NSB	GPB	Active		Drill Site Lisburne 3 Reserve Pit Stabilization	8/15/2005	8/15/2006	Duration or 8/15/2006, if no development has commenced

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
NSB06021	Lease Operations and Land Use	NSB	GPB	Active		Drill Site Lisburne 2 Reserve Pit Stabilization		5/15/2006	Duration or 8/15/2006, if no development has commenced
NSB06022	Lease Operations and Land Use	NSB	GPB	Active		Drill Site Lisburne 5 Reserve Pit Stabilization	8/15/2005	8/15/2006	Duration or 8/15/2006 if no development has commenced
NSB06112	Lease Operations and Land Use	NSB	GPB	Active		Kuparuk 24-11-12/22-11-12 Pad Abandonment and Reserve Pit Closure	12/1/2005		Duration or 12/1/2006 if no development has commenced
NSB06134	Lease Operations and Land Use	NSB	GPB	Active		Pad 3 Cells 1 and 2 Abandonment	1/12/2006		Duration or 1/12/2007 if no development has commenced
NSB06175	Lease Operations and Land Use	NSB	GPB	Active		Tract T-3C Exploration Pad Abandonment / Reserve Pit Closure	2/17/2006		Duration or 2/17/2007 if no development has commenced
NSB06189	Lease Operations and Land Use	NSB	GPB	Active		Term Well A Exploration Pad Abandonment/Reserve Pit Closure	3/21/2006		Duration or 3/21/2007 if no develoment has commenced

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
NSB06213;Amendment dated 5/12/2006	Lease Operations and Land Use	NSB	GPB	Active		Gathering Center 2 Transit Line Spill Site Rehabilitation and Erosion Control Plan	5/12/2006		Duration or 5/12/2007 if no development has commenced
NSB06213 Active amendments: Amendment dated 5/12/2006	Lease Operations and Land Use	NSB	GPB	Active		Gathering Center 2 Transit Line Spill Site Rehabilitation and Erosion Control Plan	4/14/2006		Duration or 4/14/2007 if no development has commenced
NSB06225	Lease Operations and Land Use	NSB	GPB	Active		East Dock Land Farming	5/5/2006		Duration or 5/5/2007 if no development has commenced
NSB07151	Lease Operations and Land Use	NSB	GPB	Active		Hurl State 5-10-13 Pad Abandonment and Reserve Pit Closure	11/27/2006		Duration or 11/27/2007 if no development has commenced
NSB07151A	Lease Operations and Land Use	NSB	GPB	Active		Hurl State 5-10-13 Pad Abandonment and Reserve Pit Closure	1/23/2007		Duration or 1/23/2008 if no development has commenced

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
NSB07178	Lease Operations and Land Use	NSB	GPB	Active		Kuparuk 30-11-13 Pad Abandonment and Reserve Pit Closure	12/26/2006		Duration or 12/26/2007 if no actual development has commenced
NSB07302	Lease Operations and Land Use	NSB	GPB	Active		Drill Site 5 Access Road Tanker Rollover Diesel Spill	4/20/2007		Duration or 4/20/2008 if no development has commenced
NSB08061	Lease Operations and Land Use	NSB	GPB	Active		Drill Site Lisburne 5 Pilot Gas Cap Water Injection	9/12/2007		Duration or 9/12/2008 if no development has commenced
POA1979107M	Lease Operations and Land Use	USACE	GPB	Active		C Pad Solid Waste Facility Cleanup	4/2/2004		Duration or 4/30/2007 if no development has commenced
POA1979341M	Lease Operations and Land Use	USACE	GPB	Active		Term Well A Exploration Pad Abandonment/Reserve Pit Closure	4/3/2006		2/31/2007 if activities have not commenced
POA1987202P	Lease Operations and Land Use	USACE	GPB	Active		Pad 3 Cells 1 and 2 Abandonment	2/8/2006		

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
POA1987202Q	Lease Operations and Land Use	USACE	GPB	Active		Pad 3 East End Abandonment	2/28/2006		2/31/2007 if activities have not commenced
POA1987202R	Lease Operations and Land Use	USACE	GPB	Active		Pad 3 East End Abandonment	9/22/2006		9/30/2009 if activities have not commenced
POA20041695D	Lease Operations and Land Use	USACE	GPB	Active		Highland State No. 1 Pad Abandonment and Reserve Pit Closure	1/4/2005		1/4/2007 if activities have not commenced
			MPU	Active		MPU M-Pad Abandonment and Reserve Pit Closure			
POA20041696D	Lease Operations and Land Use	USACE	GPB	Active		Kuparuk 7-11-12 Reserve Pit Closure	4/2/2004		Duration or 4/30/2007 if no development has commenced
POA20061945D	Lease Operations and Land Use	USACE	GPB	Active		Hurl State 5-10-13 Pad Abandonment and Reserve Pit Closure	1/31/2007		3/18/2008 to complete activity

APPENDIX B-4

LIST OF ENVIRONMENTAL PERMITS AND ORDERS CATEGORIZED AS LEASE OPERATIONS AND LAND USE

BPXA Permit/Driver Report

Criteria: Driver Type is Permit AND Asset = GPB AND tblDriverAsset.driver_status = Active
Sorted by: Permit/Driver (resort by clicking column headers)
Report produced: 11/2/2007 4:04:42 PM

Permit/Driver	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
POA2006665DNWP20	Lease Operations and Land Use	USACE	GPB	Active		Gathering Center 2 Transit Line Spill Site Rehabilitation and Erosion Control Plan	4/13/2006	3/18/2007	
POA2007684DNWP20	Lease Operations and Land Use	USACE	GPB	Active		Drill Site 5 Access Road Tanker Rollover Diesel Spill	4/17/2007	4/17/2009	
Rehabilitation Plan for GPB WOA Kuparuk River State dated 2/4/2002	Lease Operations and Land Use	BPXA	GPB	Active		Kuparuk River State 1 Corrective Action	2/4/2002		
Rehabilitation Plan for Term Well A dated 3/30/2006		USACE	GPB	Active		Term Well A Exploration Pad Abandonment/Reserve Pit Closure	3/30/2006		

APPENDIX B-5

LIST OF ENVIRONMENTAL PERMITS AND ORDERS INVOLVING RELEASES

Order	Enviro Discipline	Agency	Asset	Status	Status Comment	Project Name	Issue Date	Expiration Date	Other Expiration
Docket No. RCRA-10-99-0179	RCRA	EPA	GPB	Active		Administrative Order on Consent Prudhoe Bay Western Operations Area (Old Tuboscope Site SWMU)	8/6/1999	None specified	Terminates upon execution of an "Acknowledgement of Termination and Agreement to Record Preservation and Reservation of Rights"
Docket No. RCRA-10-2007-0222	RCRA	EPA	GPB	Active		Administrative Order on Consent Prudhoe Bay Western Operations Area (Site-wide SWMUs and AOCs)	10/3/2007	None specified	Terminates upon execution of an "Acknowledgement of Termination and Agreement to Record Preservation and Reservation of Rights"