Section 2.0 Site Background

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2.1 Facility Operations

This section briefly reviews the Silver Bow Plant's ownership and operational history. The operational history section examines the material handling and operations historically conducted at the Plant.

2.1.1 Ownership History

The site was agricultural land prior to 1950, when Victor Chemical Company began construction of the Silver Bow Plant. The legal description of the Silver Bow Plant is included in Appendix 2-A. Plant construction was completed in 1952. The Plant produced elemental phosphorus until 1997. The Silver Blow Plant ownership history is as follows:

1950	Victor Chemical Company began construction
1963	Stauffer acquisition
1985	Chesebrough-Pond acquisition
1986	Unilever acquisition
1987	ICI acquisition
1987	Rhône-Poulenc acquisition
1998	Rhodia Inc.

Rhône-Poulenc operated the Plant from 1987-1997. In 1997, Rhône-Poulenc shut down the Plant for decommissioning and closure. On January 1, 1998, Rhône-Poulenc transferred its chemical assets, including the Silver Bow Plant, to Rhodia Inc., a spin-off of Rhône-Poulenc. In September 2011, Solvay S.A. completed the acquisition of the shares of Rhodia S.A. (Rhodia Inc.'s ultimate parent) and Rhodia Inc. became a member of the Solvay Group.

2.1.2 Process Description

The Silver Bow Plant was constructed in the early 1950s to produce elemental phosphorus using an electric arc furnace method developed by the Tennessee Valley Authority. The process flow diagram for production of elemental phosphorus is shown on the Current Conditions Release Assessment reports (CCRA) Figure 2-23, included in Appendix 2-B. The major process areas are identified on CCRA Figure 2-24, included in Appendix 2-B. During its almost fifty years in productive service, the Silver Bow Plant has undergone several stages of development under different owners. Some of the significant structures at the facility and how they related to phosphorus production are described

below. As an overview, aerial photos (CCRA Figures 2-6 and 2-25 through 2-30, included in Appendix 2-B), show the site development over time.

Prior to 1950, the property was agricultural land as seen in the August 27, 1947 aerial photo (CCRA Figure 2-6 in Appendix 2-B). Sheep Gulch, which appears to be a braided stream in the segment where the current tailing basin is located, flowed next to the small beaver pond that is north of the current tailing basin. Sheep Gulch and the beaver pond are visible in this photo. The Plant is present in the July 25, 1954, aerial photo (CCRA Figure 2-25 in Appendix 2-B), but the tailing basin had not been constructed. The Plant and the tailing basin are present in the 1977 aerial photo (CCRA Figure 2-26 in Appendix 2-B). By 1985, most of the buildings that existed in 1997 when the Plant was closed are visible (CCRA Figure 2-27 in Appendix 2-B). CCRA Figure 2-30 (Appendix 2-B) shows the September 2 and 12, 2002 recent aerial photo illustrating that much of the production Plant has been demolished.

2.1.2.1 Raw Materials Handling and Processing

The primary raw materials used at the Plant were phosphate ore, coke, silica, lime, and sulfuric acid. The phosphate ore, coke and silica were delivered to the Silver Bow Plant during the warm seasons of the year, and were stockpiled at the site so the Plant had a continuous supply and could operate year-round.

Phosphate Ore

Phosphate ore was the main raw material for the Plant. All of the phosphate ore was shipped to the Plant in 100-ton railroad cars, which were unloaded at either the car shaker or the rotary car tipple. The railroad car unloading facility is located at the railroad spur on the east property boundary of the site. The ore was shipped to the Plant only during the summer months and stockpiled in the area between the silos and the eastern boundary of the property.

Phosphate ore was then beneficiated¹ through one of two nodulizing kilns that operated at about 2,400 °F. This process drove off the volatile matter, sublimed the heavy metals, and agglomerated the ore into nodules, which were suitable furnace feed. The beneficiated ore was then sized and stored in the silos.

Coke

Coke was used in the electric arc furnaces as a reducing agent. The coke was delivered to the Plant by rail until the early 1990s when the coke was delivered by truck. All of the coke was stockpiled in the same area as the phosphate ore and silica, on the eastern portion of the property. The coke was dried in two natural gas fired rotary dryers located in the kiln building. The coke was then sized, and stored in the silos until it was mixed with the nodules and silica for furnace feed.

Silica

Silica was used as a flux in the electric arc furnaces. The silica was delivered to the Plant in 100-ton railroad cars, unloaded at the car shaker or the rotary car tipple, and stockpiled on the east portion of the property. Silica was transferred to the silos until it was mixed with the nodules and coke for furnace feed.

Lime

Lime was used to regulate the pH levels in the tailing basin during the operation of the Silver Bow Plant. The lime was delivered by truck and stored in an indoor bin until it was slurried to the tailing basin.

Sulfuric Acid

Sulfuric acid was used to adjust the pH of the process water in the phosphorus-processing portion of the Plant. The sulfuric acid was delivered to the Plant by truck and stored in an above-ground storage tank.

¹ Beneficiated or beneficiation means chemical treatment or mechanical processes that improve a mineral or ore for its designated use. EPA's regulation at 40 CFR § 261.4(b)(7)(i) provides:

[&]quot;beneficiation of ores and minerals is restricted to the following activities; crushing; grinding; washing; dissolution; crystallization; filtration; sorting; sizing; drying; sintering; pelletizing; briquetting; calcining to remove water and/or carbon dioxide; roasting, autoclaving, and/or chlorination in preparation for leaching (except where the roasting (and/or autoclaving and/or chlorination)/leaching sequence produces a final or intermediate product that does not undergo further beneficiation or processing); gravity concentration; magnetic separation; electrostatic separation; flotation; ion exchange; solvent extraction; electro-winnowing; precipitation; amalgamation; and heap, dump, vat, tank, and in situ leaching."

2.1.2.2 Furnace Operations

The beneficiated phosphate ore nodules were mixed with coke and silica and charged into one of two electric arc furnaces (EAF) located in the furnace building. The furnaces converted the phosphate in the ore into elemental phosphorus in a reduced (i.e., oxygen-free) atmosphere. The elemental phosphorus left the furnaces as a vapor.

Slag (primarily calcium silicate) was drawn off the furnace as a liquid through the flush hole in the furnace. This molten material was cooled (i.e., solidified) via water emersion in the slag pit. The slag was subsequently excavated from the slag pit and stockpiled onsite at the coarse slag pile. From the mid-1980's until the end of furnace operations in 1995, approximately 50 percent of the slag was granulated with a high pressure water spray to a sand particle size and stockpiled separately at the granulated slag pile. Typical total slag production was approximately 200,000 tons/year.

Ferrophosphorus was also produced in the electric arc furnace. Iron, which is contained in the phosphate ore, was reduced to elemental iron as a side reaction. Phosphorus combines with the iron to form a very dense phosphorus-iron compound named ferrophosphorus. Other trace metals present in the ore, such as vanadium, silver, and gold are ferrophosphorus constituents. Approximately three times each day, molten ferrophosphorus was drained from the furnace through an opening in the furnace called a tap hole. Since the ferrophosphorus is heavier than slag, this opening was located below the flush hole in the furnace. The ferrophosphorus was collected in iron molds (chills) and allowed to air cool. This product was then sold to various vendors for use, or for metals recovery.

2.1.2.3 Condenser and Purification

The vapor stream from the electric arc furnace was cooled in lane condensers to liquefy the elemental phosphorus. The liquefied elemental phosphorus was then filtered to remove impurities from the product stream. The liquid phosphorus was moved through several different processing tanks during the filtering process. The purified elemental phosphorus was then stored in two 10,000-gallon above-ground storage tanks in the phosphorus handling area, and eventually loaded into specialized railroad tank cars for shipment.

The material retained on the filters (i.e., crude phosphorus) was sent to the Roaster Operations for additional processing.

2.1.2.4 Roaster Operations

Crude phosphorus awaiting roasting was stored in tanks and/or a 100 foot diameter clarifier. Crude phosphorus was processed through an externally heated rotary kiln. Crude phosphorus and roaster solids were metered into the rotary kiln. Elemental phosphorus was vaporized in the roaster. This vapor stream was condensed and the liquid phosphorus was sent to the product storage tanks.

The solids exited the roaster at the other end, and were cooled and stockpiled separately onsite for reuse in the roasting process, recycled to the kiln as a raw material, or sold as a by-product.

2.1.2.5 Tailing Basin

The tailing basin was constructed to handle process waters and stormwater and retain the tailing. A detailed description of the wastewater streams it received and recirculated is provided in Section 5.5.1. This current Section describes the physical make-up of the basin.

Several photographs of the dike construction have been found (Appendix 2-C). These photographs are dated September and October 1954, and show the construction methods which included transporting borrow to the construction area (trucks and scrapers), placing the borrow soils with bull dozers, and appropriate soils compaction equipment for construction of a water containment dike. One photo also shows a water truck spraying water on the work area, which suppresses dust and adjusts moisture to optimize compaction and minimize permeability of the borrow soils. The photos also indicate that the borrow soils were obtained from an area within the current footprint of the tailing basin.

In 1970-1971, the tailing basin was expanded to accommodate the water from new air pollution abatement systems (wet scrubbers) installed on the kilns and furnaces. During this time, or shortly thereafter, process slag was placed on the tops and slopes of the tailing basin dikes. The total tailing basin area is approximately 90 acres and includes the area between the influent and effluent channels and the north and south ponds (CCRA Figure 2-4 in Appendix 2-B). The tailing basin has a number of cells, several of which were normally dry. The combined water surface area of the wet cells during Plant operations was approximately 60 acres. When the tailing basin was expanded, the wash Plant tailings (fine material) and surrounding native clays were used as construction materials.

A lime addition system was also installed during the basin expansion to control the pH of the blowdown water from the kiln scrubbers. The pH control helped reduce the amount of gaseous fluoride released to the atmosphere from the tailing basin. After the solid materials settled out in the

tailing basin, the water was recirculated to various Plant processes. During the early 1980s, the basin was beginning to fill up with tailing. To maintain the effectiveness of the basin for settling solids, the basin was divided into several cells to maximize settling of solids in cells with fewer tailing (*see* CCRA Figures 2-4 and 2-26 through 2-29 in Appendix 2-B). Tailing from full cells were removed by dredging and drag-lining and either placed in dry cells or elsewhere in the tailing basin area.

2.1.2.6 Discharge Pipeline

Beginning in the late 1960s, the Silver Bow Plant had a permit to discharge storm water runoff, uncontaminated cooling water and septic system water through a concrete discharge pipe running from the Plant to Silver Bow Creek. In 1972, a new septic system was installed to manage the septic system water, and a new pumping station was constructed to pump the uncontaminated cooling water to the tailing basin. The new pumping system did not function consistently, so the cooling water, as well as storm water runoff, continued to be discharged to Silver Bow Creek. In February of 1975, an improved pumping station was completed, known as the Final Pump Station, and all of the uncontaminated cooling water and storm water runoff was pumped to the basin. After February, 1975, there was no discharge of water off of the property through the discharge pipe. The discharge point of the old concrete discharge line to Silver Bow Creek was covered with slag. The pipe system north of German Gulch Road was removed in 2004 and 2005.

2.1.2.7 Phosphoric Acid Plant

The phosphoric acid plant (acid plant) was constructed at the site in 1960. The acid plant was located north of the furnace building and manufactured fertilizer-grade phosphoric acid from elemental phosphorus. The acid plant was shut down in 1978 and demolished in the early 1980's.

The phosphoric acid production process used by the Silver Bow Plant was the typical burning plant used in the industry. The process involved pumping elemental phosphorus (P4) to the bottom of a combustion chamber, where it was oxidized with combustion air. The reaction with oxygen formed a phosphorus pentoxide (P₂O₅). The phosphorus pentoxide was sent to a hydration tower where it was reacted with water to form the phosphoric acid product (H₃PO₄). The product acid was then sent offsite and used in the production of fertilizer. The process at Silver Bow did not involve separation of the trace arsenic from the elemental phosphorus raw material. The phosphoric acid product contained the trace arsenic, which was acceptable in this application for use as a fertilizer ingredient. As such, there were no process wastes. Carbon packing rings removed during the hydration tower demolition remain on the Plant site in SWMU 4 (*see* Section 5.5.4)

All of the drawings associated with the phosphoric acid plant were discarded when the phosphoric acid plant was demolished. Rhodia could not locate any records with analytical results for the phosphoric acid product or the elemental phosphorus that was used as the raw material during the acid plant operations, which ended around 1978.

2.2 Plant Demolition

After the furnace and kiln operations were shut down in December 1995, the process equipment in the Plant was mothballed and decontaminated, except for portions of the P4 Handling Department, the Powerhouse and boiler, the Roaster, and the 100 foot clarifier. The P4 Handling Department, Powerhouse, and Roaster were shut down and decontaminated in the spring of 1997. All of the phosphorus handling condensers, tanks (except for the 100-foot clarifier), and equipment were decontaminated with high pressure hot water. The pipes were either decontaminated with high pressure hot water or washed out with standard pressure (60 pounds per square inch) hot water. Phosphorus handling sumps, # 3 Catch Basin, and drain lines were also decontaminated with high pressure hot water. The slag and raw materials in the furnaces were removed in 1996 and the carbon block and brick liners, and roofs were removed from the furnaces in 1997. The refractory brick liners in the kilns were removed in 1997.

In 1998, the Kilns, the Kiln Building with all of the raw materials handling equipment, and the Kiln Feed Building were demolished. The Furnaces, the Furnace Building, the P4 Handling area, the Powerhouse Building, and the Roaster were demolished in 1999, and the area was covered with three to four feet of coarse slag.

Structures remaining on site include the 100 foot clarifier, two office buildings, the change house building, the maintenance shop, three large storage buildings, the concrete silos, the final pump station, three small electrical equipment motor control rooms, the electrical transformer substation, and the kiln scrubbers.

Water was used to decontaminate pipes, vessels, and miscellaneous equipment that did contain or could have contained phosphorus. Individual sections of piping, as well as individual vessels and equipment, were washed with hot water to remove any residual phosphorus. All of the water used for decontamination (some of which could have become contaminated with elemental phosphorus due to the decontamination process) was collected and sent to the 100-foot clarifier through existing piping. This decontamination water would be commingled with the other water in the clarifier and either still be in the clarifier, have gone to the tailing basin as clarifier overflow, evaporated or leaked from the

clarifier. The decontamination water as well as dust control water used during the demolition was supplied by the Rhodia production wells. The overall pumping rates from the wells were lower than was typical during production. Other than that, the volume of decontamination water is not known and cannot be reliably estimated.

2.2.1 Disposition of Underground Piping

There are seven known categories of underground piping at the Plant: (1) water supply system pipes and recycled cooling water; (2) natural gas pipes; (3) sanitary sewer system pipes; (4) storm water drain system pipes (which were multi-purpose); (5) tailing basin recirculation water pipes (which were multi-purpose); (6) process water discharge pipes; and (7) boiler feed and non-contact cooling water.

The first two categories of pipe, water supply system pipes and natural gas pipes, would not contain elemental phosphorus. No elemental phosphorus was ever transmitted in these lines and there is no reason to believe that elemental phosphorus got into these lines. Water supply system pipes are the pipes that distribute water from the production wells, shown as purple lines on CCRA Figure 2-24 in Appendix 2-B. No wastewater was ever allowed in these pipes. Portions of both these systems are still functional and are in use.

Most of the sanitary sewer system pipes, the third category, are still functional and are in use. These pipes would have conveyed sanitary wastes and, except for the sanitary line from the laboratory, would not be expected to contain elemental phosphorus because floor drains and Plant water overflows were connected to the stormwater drain system, not the sanitary system. The sanitary sewer system pipes are shown as green lines on CCRA Figure 2-24 in Appendix 2-B.

The dark blue lines on CCRA Figure 2-24 in Appendix 2-B are storm water drain system pipes. Most of the stormwater drain system pipes (category 4) are still functional and are still in use. The Plant stormwater pipes flow to the Final Pump Station. The discharge piping from the Final Pump Station to the tailing basin is part of the storm water drain system and is still in use. Although elemental phosphorus water (phossy water) sometimes was carried by this system during the period of Plant operations, Rhodia has not seen evidence of elemental phosphorus in the outfall area (tailing basin) from the operation of the Final Pump Station since Plant demolition.

The tailing basin recirculation pipes (category 5) are those running from and those running to the tailing basin. The pipes carrying recycled water from the tailing basin are shown by orange lines on

CCRA Figure 2-24 in Appendix 2-B, and the line returning to the tailing basin, referred to as the "Hazelton Line," is shown in light blue. The typical water velocities in this pipe during operation were over 3 feet per second (4500 gpm in a 24 inch pipe), which would tend to keep small particles from settling out. The pumps have been disconnected and removed, and both ends of this system are currently buried beneath slag placed after demolition of the Plant. Aboveground portions of these pipes were taken out of use and were washed out with hot water during the Plant demolition process.

The process water discharge pipes (category 6) are the discharge lines that ran underground to the Plant water discharge trough. The ends of the 100-foot Clarifier sump discharge pipe are still present at the trough and Clarifier locations, and the discharge end of the #3 Catch Basin pipe is still located at the trough. The other end of the #3 Catch Basin pipe is currently buried beneath slag placed after demolition of the Plant. The below-ground portion of the #3 Catch Basin discharge pipe is shown on CCRA Figure 2-24 in Appendix 2-B. These pipes were routinely flushed with hot water during operational use, were flushed with hot water during demolition, and are not expected to contain elemental phosphorus.

There was some category 7 underground piping that was abandoned sometime before Plant closure, primarily boiler feed water lines and/or non-contact cooling water lines from the cooling tower. This piping would not be expected to contain elemental phosphorus since the water would not have come in contact with elemental phosphorus.

2.3 Land Use and Surrounding Area

2.3.1 Land Use

This section presents a summary of the current land uses at the Silver Bow Plant. A brief description of the current and reasonably anticipated future land use for the Plant property and the property immediately adjacent to the Silver Bow Plant is provided.

2.3.1.1 Current Land Use

The Silver Bow Plant ceased all elemental phosphorus producing activities in 1997. The current uses of the Rhodia property are management of the decommissioned facility, and agricultural use of portions of the Natural Area. The remaining structures at the Silver Bow Plant await demolition in conjunction with final closure of the Plant.

As described below, properties adjacent to the facility are currently used for industrial and agricultural purposes, or are managed under Superfund. The adjacent land uses are noted on CCRA Figure 2-2 in Appendix 2-B.

The Silver Bow Plant property and lands to the east and south of the property are within the County Industrial Development Zone (Silver Bow County, 2004). This area is zoned for industrial use. The Port of Montana is located to the northeast of the property, within the Industrial Zone. The Port consists of transloading facilities for trucks and railroad cars.

The former Silver Bow County sewage land injection site lies immediately to the east of the property and until 1997 it operated under an MPDES permit (MT0027430). Sewage injection ceased in 1997, and the area is currently used as a county-owned and operated sod farm. Additional data on the sludge, sediments, and groundwater from the site are presented in Appendix R of the CCRA and is included in this report as Appendix 2-D. The effects of the land sewage injection site on groundwater are further discussed in Section 5.3.2.

The Renewable Energy Corporation (REC) plant, formerly Advanced Silicon Materials, Inc. (ASiMI), a silicon production facility, is located south of the property, and is within the Industrial Zone. The REC plant is a RCRA large quantity generator (ID No. MTR000004754). The REC plant also holds an MPDES permit (Permit No. MT0030350) and discharges wastewater to Sheep Gulch. The permit allows the REC plant to discharge solutions with nitrogen, chlorine, and numerous metals including phosphorus, fluoride, and arsenic. Rhodia granted the REC plant an easement to allow their wastewater to travel through the Silver Bow Plant property. During periods of high discharge from the REC plant, their discharge produced surface water flow in Sheep Gulch. For several years, their wastewater discharge largely infiltrated to groundwater south of the Rhodia property and emerged as surface water discharge north of the tailing basin. Additional discussion about the REC plant wastewater discharge and groundwater quality is provided in Section 5.3.2.

Lands to the west of the property, which are currently used as dry pasture, are zoned for agricultural use. A few residences are present west of the Silver Bow Plant property along German Gulch Road and south of Silver Bow Creek. Specifically, there are six residences within ½ mile of the northwest corner of the Rhodia property.

The reach of Silver Bow Creek located north of the facility is within the Streamside Tailings Operable Unit (SSTOU) of the Silver Bow Creek/Butte Area National Priorities List (Superfund) site. Silver Bow Creek was used as a conduit for mining, smelting, industrial, and municipal wastes for over 100 years (MDEQ, 1995). The NPL site extends from above Butte, near the Continental Divide, westward along Silver Bow Creek to and including the Warm Springs Ponds (a treatment area). Unsaturated and saturated sediments, groundwater, and surface water adjacent to the creek were contaminated with arsenic, cadmium, copper, lead, mercury, and zinc. Remediation of the SSTOU was driven by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and was undertaken by the State of Montana. Rhodia is not a potentially responsible party at this site.

According to the Record of Decision (ROD), the Explanation of Significant Differences, and discussions with MDEQ project manager for the Stream Side Tailings Operable Unit, the tailings, impacted soils and sediments within the 100 year flood plain that exceed "order of magnitude reduction levels" will generally be excavated and relocated to local repositories outside of the 100 year flood plain. This order-of-magnitude criterion was intended to achieve the following metals levels, according to the State's project manager (Chavez, 2004):

- Arsenic generally less than 200 mg/kg.
- Cadmium generally less than 20 mg/kg.
- Copper, lead, and zinc generally less than 1,000 mg/kg.
- Mercury generally less than 10 mg/kg.

Remedial construction activities in the area north of the Rhodia property (Subarea 2, stream reaches F, G, and H) began in April 2004. Approximately 1,258,000 cubic yards of tailings and impacted soils and sediments were excavated from reaches F, G, and H, and were transported to the Opportunity Ponds tailings disposal facility near Anaconda, Montana (U.S. EPA, 2011). Approximately 17,500 cubic yards of contaminated soil in the adjacent railways were removed and a cap for remaining materials was installed over 16,440 square yards (U.S. EPA, 2011). Silver Bow Creek's channel bed and stream bank were reconstructed and a long term monitoring and maintenance program was implemented. The reconstruction of the Silver Bow Creek stream bank and channel bed along reaches F, G, and H was completed in March 2009, although revegetation and stream bank stability continue to be monitored (U.S. EPA, 2011).

Although a goal of the remediation is to have the surface water and groundwater concentrations eventually attain water quality standards, the tailings and impacted sediments and soils that will be left in place at the "order-of-magnitude" removal levels (e.g., arsenic at 200 mg/kg) are a continuing

source of metals that will migrate into Silver Bow Creek. Despite these levels of remaining metals, the SSTOU remedy is based on the assumption that long-term contaminant attenuation in groundwater and surface water will achieve water quality standards. No timeline is specified for this eventual attainment. In addition, institutional controls have been implemented through the installation of a locked gate along on an access road to the Subarea. Additional signage, gates, and fencing were proposed in the third 5 year review conducted by the U.S. EPA (2011). The ROD states: "The selected remedy will protect human health and the environment through actions... together with permanent monitoring and maintenance of the remediated areas ... through a comprehensive institutional controls, monitoring and maintenance program" and "[i]nstitutional controls restricting use of and exposure to contaminated groundwater will be necessary until the (groundwater) standards are attained" (MDEQ, 1995, pp.116-117).

2.3.1.2 Comprehensive Community Master Plan and Zoning

The Silver Bow Plant property is zoned for industrial land use as shown on the Butte-Silver Bow Future Land Use map on CCRA Figure 2-31 (Appendix 2-B). This figure also shows that the preferred future use of the Silver Bow Plant property is for industrial land use as defined in the Butte-Silver Bow Growth Policy (equivalent to a Comprehensive Community Master Plan). The Growth Policy defines rural industrial land use as being outside the urban corridor and land uses would include heavier industrial uses with needs for large tracts of land to avoid conflicts with residential users. This document was adopted in 2008. Adjacent property to the east and south is also zoned for industrial use. The property north of the German Gulch Road occupied by the Port of Montana is also zoned as industrial. West of the Silver Bow Plant, an area unaffected by Rhodia's Plant operations, agricultural land uses with a minimum parcel size of 10 acres will be allowed. Six existing residences are present in the agricultural area within ½ mile north and west of the Silver Bow Plant property along German Gulch Road and south of Silver Bow Creek. Future land use for land north of German Gulch Road and west of the Port of Montana is identified as rural with a minimum lot size of 1 acre, based on the Growth Policy. This land use is not likely, however. As indicated on CCRA Figure 2-31 in Appendix 2-B, the "Proposed Riparian Corridor" covers all this land between the Silver Bow Plant property and Silver Bow Creek, as well as a portion of the area north of Silver Bow Creek. This corridor also encompasses a Superfund site which is subject to land use and groundwater use restrictions that do not permit residential use, as described above. Significant portions of the area north of German Gulch Road are wetland or flood plain, an additional reason permanent dwelling construction may be restricted.

The only current residential area is in Ramsay, Montana, which is zoned as a rural center. Ramsay is also not affected by Rhodia's Plant operations since it is located north of Silver Bow Creek, which serves as a discharge point and barrier for groundwater and surface water flow from the Plant northward.

2.3.1.3 Reasonably Anticipated Future Land Use

Given the history of industrial land use on the Silver Bow Plant property and the presence of the Port of Montana, it is expected that the Plant property will be zoned as industrial for an extended period into the future. When closure is complete, structures remaining in the Plant Area will be two office buildings, including a laboratory, and a former maintenance shop. An existing railroad siding and car unloading facility will remain on the east side of the Plant Area. Selected portions of other railroad sidings in the Plant Area may also be preserved, as well as utilities and ancillary facilities, like fences and asphalt or concrete pads and foundations. Future industrial or commercial operations could benefit from this infrastructure and from the central location of the Plant in relation to adjacent operations to the east and south of the facility.

The future use of the Tailing/Slag Area shown on CCRA Figure 2-3 in Appendix 2-B will depend on the nature of the selected closure for the area, the adjacent land use in the former Plant area, and the land use zoning.

The Natural Area is the entire west and south portion of the property (CCRA Figure 2-3 in Appendix 2-B). The Natural Area has not been used for phosphorus production or stockpiling, and the groundwater underneath it is mostly upgradient of the Plant Area and Tailing/Slag Area. Borrow material is expected to be obtained from this area for use during closure activities. Future use of the Natural Area is expected to be consistent with existing and probable future agricultural or recreational uses in adjacent properties to the west. A change in zoning would be required for these uses. However, industrial use of this property would also be an acceptable alternative, or it could be used as buffer land for industrial use of the main Plant area.

Future uses of properties adjacent to the facility are expected to remain as industrial, commercial, and agricultural. These uses are consistent with county planning and zoning provisions.

2.3.2 Groundwater Use

This section presents a summary of the current use and potential future use of groundwater at the Silver Bow Plant. As of the date this document was finalized, exact plans for future groundwater use have not been finalized.

The upper 100 to 150 feet of the graben-fill aquifer in the vicinity of the site tends to be finer grained than the deeper zone of the aquifer, and wells screened in this upper zone typically produce poor yields of 25 to 50 gallons per minute (gpm). The Silver Bow Plant has five functional industrial wells that are screened in the deeper zone of the graben-fill aquifer, of which two are currently being used. The Silver Bow Plant wells can produce useful industrial water supply yields (over 600 gpm in some of the wells) from depths below 180 feet. Since phosphorus production has ceased at the Plant, Rhodia is presently operating only one production well at a time, either RP-W-1 or RP-W-7. Groundwater has not been used for drinking water since 1983 when bacteria were detected in some of the wells. Future use of onsite groundwater is anticipated to be supply of irrigation water for agricultural use or supply of process water for industrial applications.

The Montana Bureau of Mines and Geology (MBMG) database identifies at total of 146 wells within an approximate 2-mile radius of the Silver Bow Plant. The locations of the wells are depicted on CCRA Figure 2-32 in Appendix 2-B and the supporting data downloaded from the MBMG database are provided in Appendix 2-B. Geotechnical borings from the MBMG database were not included on the figure or in the appendix. During preparation of CCRA Figure 2-32 (Appendix 2-B), it became apparent that the MBMG database was not completely accurate. A review of the MBMG information for wells on the Rhodia Plant site was conducted. Five monitoring wells were misidentified in the MBMG database as boreholes and two well locations were inaccurate. The misidentified well locations are marked as such on the figure and the database table included in the appendix was edited to reflect the information about the known monitoring wells. The accuracy of the rest of database was not reviewed or confirmed.

There are seven wells classified as public water supply wells within two miles of the property. Two of the public water supply wells are in Ramsay, a rural center, and the five other wells supply water to area businesses: Renewable Energy Corporation, Port of Montana, Scoular Grain, and Pioneer Concrete. There is also a public water supply well owned by Mark Hanson. None of the drinking water wells shown on the MBMG database are known or expected to utilize groundwater that is impacted by the Silver Bow Plant. The public water supply and domestic wells identified in the

MBMG database are upgradient or sidegradient to the flow of groundwater under the Plant, or are north of Silver Bow Creek, which acts as a natural barrier to the flow of groundwater from the Plant.

Domestic wells to the northwest have intervening monitoring wells between the Plant and the domestic wells. These wells serve as a sentinel for any potential impacts at the domestic well locations (*See* Section 5.3 for additional information).

2.4 Regulatory History and Environmental Compliance

2.4.1 Environmental Permits, Exemptions and Registrations

The Silver Bow Plant has had two environmental permits, an exemption, and one registration. A water discharge permit was in effect from 1968 to 1972 to discharge storm water runoff, uncontaminated cooling water and septic system water to Silver Bow Creek. Until February 1975, storm water runoff and cooling water was discharged to Silver Bow Creek. After that time, sanitary water was discharged into a septic system and stormwater and Plant process water were discharged to the tailing basin system. The Montana Department of Health and Environmental Sciences (MDHES) declared Silver Bow Plant's tailing basin system exempt from the groundwater pollution control permitting requirements in 1983. The other environmental permit the Silver Bow Plant has obtained is an air quality permit, Permit No. 1636-07. In addition, the Plant filed a Title V air permit application in 1996.

The Silver Bow Plant has a U.S. EPA identification number, No. MTD057558546, and is designated as a large quantity generator.

The KEECO Analytical Laboratory, which leased laboratory space at the Silver Bow Plant from 1999 to 2003, was a RCRA small quantity generator, U.S EPA No. MTR000008235. The lease expired in 2003, and their laboratory is no longer in operation.

2.4.2 Compliance History

In accordance with a Compliance Order issued in the 1970s from the MDHES, the Silver Bow Plant installed air pollution control equipment.

The Silver Bow Plant has received citations from the MDHES Air Quality Bureau, for exceeding fluoride standards in forage. At issue were emissions of fluoride which deposited on the grasses consumed by cattle and affected the strength of their teeth. The Plant monitored the fluoride concentrations as required. Rhodia's 1995 State Fluoride in Forage Report is included in

Appendix 2-F. The deposition of fluoride on vegetation ended with Plant closure and the associated complaints from the ranchers ceased.

The Plant received two citations from the MDHES Air Quality Bureau in 1984 and 1985 for exceeding opacity limits on the furnace tap hole fume scrubber. In 1992, the Silver Bow Plant received additional citations from the Air Quality Bureau for exceeding opacity and total particulate limits. This matter was resolved through a Consent Order in 1995.

In December 2003, Rhodia entered a guilty plea before the federal District Court for Montana to two felony counts of failing to have a hazardous waste permit for the storage of D001 ignitable hazardous waste in the clarifier and D001 ignitable hazardous waste in the furnace brick and liner pile and in pans containing electrostatic precipitator dust. The plea was accepted by the court and sentencing was entered on April 29, 2004 in <u>United States v. Rhodia Inc.</u>, CR 03-29-BU-DWM (D. Ct. MT., judgment entered on 5/3/04). As a condition of probation, among other things, Rhodia is required to complete an investigation and, as necessary, corrective action at the Plant in accordance with a 7003 Order and a 3008(h) Order.

In a Consent Agreement filed on July 1, 2004, U.S EPA Region 8 agreed to resolve for no penalty all civil liability of Rhodia from the time it became owner of the Silver Bow facility through April 29, 2004 for violations of RCRA that could be alleged based on information known to U.S EPA through the date of execution of the Consent Agreement.

Similarly, in a letter dated January 13, 2004 from Jan Sensibaugh, Director of MDEQ, to Ken Kastner, counsel for Rhodia, MDEQ agreed that it would not bring a civil penalty action or seek criminal enforcement for any past violation or continuation of a past violation of the Montana Hazardous Waste Act at the Silver Bow Plant that could be based on the information presently known to DEQ concerning wastes that were the subject of the plea agreement (MDEQ, 2004). MDEQ also recognized and agreed in this letter that investigation and remediation of releases of hazardous waste and hazardous constituents from the Silver Bow facility will be conducted under the 3008(h) Order issued by U.S EPA and that matters relating to the investigation and closure of the clarifier and the used furnace brick and liner pile would be addressed in accordance with the 7003 Order issued by U.S EPA.

2.4.3 Other Regulatory Activity

2.4.3.1 Tolling and Standstill Agreement

On April 8, 2002, MDEQ and Rhodia executed a Tolling and Standstill Agreement to address regulatory issues associated with the 14 pans of phosphorus-bearing material, including eight pans of precipitator dust, that were being stored at Rhodia's Silver Bow Plant. The purpose of the Tolling and Standstill Agreement was to allow the continued storage of the material in the 14 pans in a manner that was lawful, safe and protective while a decision was made on the ultimate disposition of the material in the pans. It was agreed that Rhodia could continue to properly store the pans during the period of the Standstill Agreement, and that such storage beyond 90 days would not be the basis of an MDEQ enforcement action or penalty assessment.

By November 1, 2002, Rhodia had removed the phosphorus-bearing material from the 14 pans, drummed the material, and shipped the drums to Trade Waste Incineration in Sauget, Illinois. These drums were managed as conditional hazardous wastes and sent offsite with manifests and land disposal restrictions documentation. The cleaned pans were sold as scrap metal for recycling. By letter dated January 26, 2003, MDEQ agreed that as a result of the removal of the phosphorus material from the pans, the Tolling and Standstill Agreement terminated on November 1, 2002 (MDEQ, 2003).

2.4.3.2 Parcel 26 Wastewater Discharge Pipe MOA and AOC

The Montana Department of Environmental Quality is conducting a CERCLA remedial action for the Streamside Tailings Operable Unit (SSTOU) of the Silver Bow Creek/Butte Area NPL Site. A small portion of the SSTOU (i.e., Parcel 26) was once owned by Rhodia. A wastewater discharge pipe ran from the Silver Bow Plant through Parcel 26 to Silver Bow Creek, and some slag that was recycled for construction purposes was also placed in a few small piles on Parcel 26 (see Section 2.1.2.6 for the early history of the discharge pipe). Parcel 26 also contains mine tailings and related soil contamination (i.e., SSTOU materials) in and along the banks of Silver Bow Creek that are the subject of the CERCLA remedial action and that come from mining operations unrelated to operations of Rhodia or its predecessors.

In order to facilitate MDEQ's remedial work, Rhodia agreed to remove the discharge pipe north of German Gulch Road, clean and plug the pipe under the Road, and assist MDEQ in the handling and disposal of any elemental phosphorus that may be encountered. This agreement was memorialized in an Administrative Order on Consent (AOC) issued and filed by U.S EPA Region 8 on May 19, 2004 regarding the discharge pipe work in the non-floodplain portion of Parcel 26 and under German

Gulch Road. A separate Memorandum of Agreement (MOA) was entered into with MDEQ dated January 12, 2004 regarding the discharge pipe work in the floodplain portion of Parcel 26.

Rhodia removed and properly disposed of the pipeline in 2004 (*see* Section 5.5.24 for further details). Slag that covered the pipeline in the flood plain that had to be removed to excavate the pipe was stockpiled with other slag in Parcel 26.

2.4.3.3 RCRA § 7003 Order

U.S. EPA Region 8 issued an Administrative Order (7003 Order), Docket No. RCRA-8-2000-07, under § 7003 of the Solid Waste Disposal Act, as amended (42 U.S.C. § 6973). This Order was issued on June 12, 2000 and amended on December 27, 2000. The 7003 Order required Rhodia to perform the following work to address the clarifier and furnace liner and brick pile:

	7003 Order Requirement Completion Date							
Pri	Prior to July 14, 2000:							
1.	Install a security fence around the clarifier and the pile of used brick and furnace liner.	July 10, 2000						
Post signs across the perimeter of the facility and upon the security fences referenced in (1). July 11								
Pri	or to July 29, 2000:							
1.	Assess interim measures necessary to protect public health and the environment, including wildlife, develop an interim measures work plan (IMWP), and submit the IMWP to U.S. EPA.	July 27, 2000						
Pri	or to October 25, 2000 (extended to December 2000) :							
1.	Implement the approved IMWP.	September 28, 2000						
2.	Submit an Interim Measures Implementation Report in accordance with the approved IMWP schedule.	December 22, 2000						
Pri	or to January 31, 2001							
1.	Submit a written work plan that evaluates alternatives for the lawful removal and disposal of the contents of clarifier and used brick and furnace liner (i.e., Waste Plan)	January 30, 2001						

Under the 7003 Order, U.S EPA also requested Rhodia to conduct pre-closure groundwater monitoring of the areas near the clarifier and brick pile. Rhodia conducted all requested monitoring and analysis, and has complied with all requirements of the 7003 Order. The 7003 Order remains in effect, since, as stated in Section VI.B. of the 3008(h) Order, the 7003 Order is the mechanism to address all investigations and closure matters regarding the clarifier and the used carbon brick and furnace liner pile. As such, while this CCRA will review the current conditions relating to those units, it will not address further investigative, closure or remedial action with respect to them since that is being properly addressed under the 7003 Order.

2.4.3.4 RCRA § 3008(h) Order

U.S. EPA issued a Corrective Action Order on Consent (3008(h) Order), Docket No. RCRA-08-2004-0001, under § 3008(h) of the Resource Conservation and Recovery Act (RCRA) (42 U.S.C. § 6928(h)). The 3008(h) Order requires Rhodia to perform investigation and, as appropriate, corrective measures to address releases of hazardous waste and hazardous constituents at and from the Silver Bow Plant as necessary to protect human health and the environment considering site specific factors.

2.5 Waste Streams, Solid Waste Management Units and Areas of Concern

This section identifies the waste streams, the solid waste management units (SWMUs), and the areas of concern (AOCs) at the Silver Bow Plant. These waste streams, SWMUs and AOCs were identified through: (1) review of environmental investigations conducted by U.S EPA, MDEQ, Rhodia and Rhodia's predecessors; (2) discussions with current and former Plant personnel; (3) review of available aerial photos and Plant files; and (4) database records review of the property.

2.5.1 Identification of SWMUs and AOCs

The RCRA § 3008(h) Order defines a SWMU and an AOC as follows:

- <u>SWMU</u>: any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released.
- <u>AOC</u>: any area of the Facility at or from which a release to the environment of any hazardous waste or hazardous constituent has occurred, is suspected to have occurred or may occur, regardless of time, frequency, or duration of the release and which may present an unacceptable risk to human health or the environment regardless of whether such area meets the definition of a SWMU. The term Area of Concern includes, but is not limited to, areas and discernible units at which solid wastes have been placed, at any time, irrespective of whether the area or unit was intended for the management of solid or hazardous waste. Examples of Areas of Concern include, but are not limited to, landfills, surface impoundments, pits, waste piles, land treatment units, incinerators, tank systems (including any storage, treatment or accumulations tank systems), container storage units, waste or wastewater treatment systems units, and recycling units or other area or systems that

received solid or hazardous waste or hazardous constituents or released hazardous waste or hazardous constituents at any time.

The SWMUs/AOCs are identified and summarized in Table 2-1 which is adapted from the CCRA report. This summary includes the unit identification, map section identification (i.e., figure number), description of materials/wastes managed, dates of operation, description of the unit, discussion of the current status of the unit, and identification of the pertinent contaminants of potential concern (COPC) categories. COPC categories include groups of chemicals such as metals, elemental phosphorus, phosphorus (total- & ortho-), general chemical and site-specific parameters (e.g., fluoride, iron, magnesium, sulfate, etc.), volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and radionuclides. Analytical parameter lists for each COPC category will be proposed in the RFI Work Plan for each media and sampling location where there is a complete or potentially complete pathway. COPC categories were identified for the various environmental media through review of the following information:

- Process knowledge;
- Discussion with current and former employees;
- Material Safety Data Sheets and Product information; and
- Existing analytical data from site samples.

Additional details about COPC identification is provided in the CCRA (Barr 2006) and SWMU/AOC specific COPC's are discussed in detail in their respective sections included in Section 5.5 of this report.

2.5.2 Material/Waste Stream Characteristics

This section summarizes each material/waste stream that was identified at the Plant.

2.5.2.1 Process Water

Water was used in several operations at the Silver Bow Plant. The Plant utilized groundwater from five production wells and recycled tailing basin water for the various operations. The principle uses of process water included: washing fines from the ore at the ore-washing plant; for slag (coarse and granulated) cooling water; for scrubber water; for covering elemental phosphorus (phossy water); and process cooling water. In addition to these uses of process water which contacted different materials

present at the Plant, boiler blowdown water, stormwater and septic system water were also managed at the Plant. The process water is discussed in more detail in Section 5.5.1 of this report.

2.5.2.2 Wastewater Management

The tailing basin was constructed to receive and manage the process waters, cooling water, and storm water from the Plant area. The tailing basin allowed suspended solids in the water to settle out, so the water could be re-circulated and re-used in Plant processes. The tailing basin was designed and operated as a "closed-loop" system, with no discharge to other surface waters.

Discharges to the Tailing Basin

From the mid-1970s on, there was no discharge from the Plant to surface water. All water was either recirculated through the tailing basin, or discharged to the septic system.

In the early years of the Plant, the Montana ore was washed to remove fine-grained materials. The wash water containing the entrained clays and silts was discharged to the tailing basin. These fine-grained materials would be found at the base of the tailing basin, predominantly in the northern portion of the basin. When the Plant began using Idaho ore, the ore-washing plant was no longer needed. In the 1970s, Plant air emissions control systems were expanded, and the water associated with those systems was recirculated through the tailing basin, as described in more detail under the Kiln #1 and #2 paragraph below. Rhodia believes the majority of the tailing in the basin is particulate matter (and dirt) removed by the Plant scrubbing systems and the old ore-washing plant.

Table 2-2 presents a summary of the discharges to the tailing basin from the mid-1970s to Plant closure. The following descriptions provide additional detail regarding the material carried in the discharges.

There were three conveyance systems that delivered water to the tailing basin. The Plant water discharge trough carried the #3 Catch Basin stream, the 100-foot Clarifier overflow stream, and air scrubbing systems discharges. The #3 Catch Basin stream and the 100-foot Clarifier overflow stream discharged to the trough by way of underground pipes. The Plant water discharge trough (called "Launder" on CCRA Figure 2-24 in Appendix 2-B) was an above-ground system located southwest of the kiln scrubbers, which delivered water to the north portion of the tailing basin. This trough was constructed of fiberglass and had a semi-circular cross section, which was approximately 4 feet in diameter. Individual sections, approximately 8 feet in length, were supported by a steel frame.

These sections were bolted together and placed on the ground at the correct elevation to allow gravity flow to the tailing basin. The frame deteriorated in places allowing leakage into the surrounding soil.

A second conveyance was the Hazelton Line which carried the large flows from the slag granulation process. This is shown on CCRA Figure 2-24 in Appendix 2-B as a 24-inch underground pipe, color-coded in light blue. The third conveyance was the Final Pump Station, which discharged to the tailing basin through a buried pipe.

The #3 Catch Basin stream contained recycled tailing basin water used for cooling the slag pits, recycled tailing water used in the Plant cooling water system, well water, and boiler blow-down water. The location of the #3 Catch Basin is shown on CCRA Figure 2-24 in Appendix 2-B. The #3 Catch Basin was also the back-up system when the regular systems were not capable of handling process water from the roaster feed tank system, process water from the P4 sump, recycled tailing basin water from the slag granulation system, and flow from the 100-foot Clarifier. The #3 Catch Basin water was pumped to the Plant water discharge trough through an overhead pipe that has been removed, as shown on CCRA Figure 2-24 (Appendix 2-B).

The 100-foot Clarifier was designed with an outlet weir (a section of wall that was lower than the rest of the wall) to allow water at the surface to discharge to a steel trough which fed into the clarifier sump. This type of outlet discharges by overflowing across the weir that sets the water level, and is good for maintaining a relatively quiescent pool where solids can settle out. During Plant operations, this stream was referred to as the clarifier overflow stream, and that language has been maintained here. From the clarifier sump, the 100-foot Clarifier overflow stream would be pumped to the Plant water discharge trough through an underground pipe leading to the tailing basin. The stream consisted of process water from the P4 sump (which served the P4 Handling Area and Furnace Condenser Area) and process tanks. The streams from these areas were from P4 sump flows (which would be phossy water), from process tanks (including solids from the P4 filtering processes), water from the hot water tank, and non-contact water from the jacketed water line systems.

The Kiln Feed Building Moat stream was the water from a concrete moat located between the Kiln Building and the Kiln Feed Building. This stream consisted of recycled tailing basin water and fresh well water used in the Kiln Feed Building for washing down material transfer points and equipment. This stream contained kiln material handling water, and would not have contained phossy water. The solids in the Moat stream were mostly fine ore, coke, and silica dust. The stream was transferred to the tailing basin by pumping through overhead pipes to the Plant water discharge trough. On those

occasions when the Moat Stream pumps were down, the flow from the Moat drained into the storm water drain system, which was pumped to the tailing basin by the Final Pump Station.

The #1 and #2 Kiln Scrubber streams were recycled tailing basin water used in the air pollution control scrubbers for the kiln emissions and other air scrubbing systems. The water used in the kiln scrubber systems carried away the dust and gaseous emissions scrubbed from the emissions from the kilns. The streams from the #1 and #2 Kiln scrubbers discharged directly to the Plant water discharge trough. The performance of the original kiln scrubbers was enhanced in 1971 when Rhodia increased the water flow through the scrubbers by using recycled tailing basin water rather than well water which was in limited supply. The CCRA Figure 2-24 in Appendix 2-B shows the recycled tailing basin water supply line to the Kiln Scrubbers in orange. Secondary scrubbers were added in 1976, which removed additional particulates (dirt). A 1993 upgrade increased the particulate removal effectiveness and improved emissions opacity control. The scrubbers have always discharged to the tailing basin, though in the early years the water passed through a kiln scrubber clarifier en route to the tailing basin. The tailing basin was expanded in the 1970s for the purpose of accommodating the scrubber water and associated solids. Rhodia believes the majority of the tailing in the basin is particulate matter (dirt) removed by the Plant scrubbing systems and the old ore-washing plant.

The Lime Treatment stream was water from the tailing basin to which lime had been added. The system was used to regulate the pH levels in the tailing basin. The Lime Treatment stream water was added via an above-ground pipe into the Plant water discharge trough, which discharged to the tailing basin.

The Hazelton Line pumped tailing basin water used in the slag granulation system back to the tailing basin through a large (24 inch) underground pipe. The light-blue line on CCRA Figure 2-24 in Appendix 2-B is the Hazelton Line. The parallel orange line is the tailing basin recycled water supply line. The Hazelton Line water likely carried some granulated slag, but did not normally include phossy water. Some of the #3 Catch Basin streams, which did include phossy water, were pumped to the tailing basin through the Hazelton Line when the normal #3 Catch Basin discharge was not available.

The Final Pump Station stream was conveyed to the tailing basin by an underground pipe that discharged into the north part of the basin. The pipelines into and out of the Final Pump Station are storm water drain system lines, shown in dark blue on CCRA Figure 2-24 in Appendix 2-B. Before the facility was demolished, the normal stream consisted of storm water runoff, overflow water from

the slag pits (recycled tailing basin water), and water from various drains and applications where well water could overflow. Other flows that were handled by the Final Pump Station when the normal systems were not available were overflow water from the Kiln Feed Building Moat, overflows from the kiln dust collector scrubbers (recycled tailing basin water) Plant cooling water system overflows, and overflows from the #3 Catch Basin. The Final Pump Station became operational in 1975, and was equipped with a portable generator so that it could be kept functional even when other systems had no power.

Currently, the Final Pump Station stream consists of storm water runoff, well water discharges from periodic flushing of facility fire hydrants, and a small well water discharge from the shop building.

Tailing Basin Water Quality Evaluation

Rhodia prepared the *Tailings Pond and Groundwater Review* report and submitted the document to the Montana DEQ on November 8, 1996. The report provided a description and history of the Silver Bow Plant tailings basin and a summary of available groundwater data is summarized in Sections 5.5.1 and 5.3, respectively, of this report and is further discussed in the CCRA (Barr 2006). The Silver Bow Plant recirculated approximately 10,000 gpm of water through the tailing basin. The water flow rate and water quality data are summarized in Table 2-2.

2.5.2.3 Non-Wastewaters

2.5.2.3.1 Tailing

The tailing is the suspended solids that settled out in the tailing basin. Their primary source was initially the ore-washing operations, and subsequently, solids removed by the wet scrubber systems that provided air pollution control on the kilns and furnaces. The tailing is managed in SWMU 1 and is discussed in detail in Section 5.5.1.

2.5.2.3.2 Crude Phosphorus

After the elemental phosphorus was produced in the furnace, condensed and filtered, the residual filter cake from filtering was reprocessed as crude phosphorus. The crude phosphorus consisted of elemental phosphorus (about 20% volume/volume [v/v]); water (about 30% [v/v]); and solids (about 50% [v/v]) such as phosphate dust, coke dust and silica dust. Until March 1997, the crude phosphorus was further processed in the Plant's roaster to produce P4 product.

Crude phosphorus may ignite when exposed to air. It may also generate some phosphine gas when it is in contact with water at high pH, temperature and agitation conditions. Rhodia installed a

continuous phosphine monitoring system around the clarifier as required by the RCRA § 7003 Order and submits annual phosphine monitoring reports² to U.S EPA. The time-weighted average values reported from the continuous monitoring for phosphine have typically been 0.0 ppmv. Crude phosphorus is further discussed in Section 5.5.2.

2.5.2.3.3 Used Carbon Brick/Furnace Liner/Electrodes

The used carbon brick and furnace liner is a refractory lining that was removed from electric arc furnaces that were used to convert phosphate ore and other feedstocks into elemental phosphorus. The electrodes were the heating elements of the furnaces. Although the brick, liner and electrodes could contain trace amounts of amorphous phosphorus and are manufactured from carbon, they are non-combustible (UCAR, 1994). These materials are managed in SWMUs 3 (Used Carbon Brick and Furnace Liner Pile), 4 (Used Carbon Blocks, Floor Logs and Furnace Liner Pile), and 5 (New and Used Carbon Block and New Carbon Brick) and are further discussed in Sections 5.5.3, 5.5.4 and 5.5.5 respectively.

Portions of the surfaces of a small fraction of the used carbon brick, liner and electrodes may contain a thin veneer of amorphous phosphorus, which appears as a noticeable red material adhering to the surface. Accordingly, assessing the presence or absence of amorphous phosphorus is a visual observation rather than a laboratory analytical procedure. This amorphous phosphorus does not spontaneously react with air, but may ignite when sufficient friction is applied to its surface. In all likelihood, the amorphous phosphorus on the surface of the bricks at the Silver Bow Plant has oxidized with the ambient air to form a very thin layer of oxidized phosphorus compounds. This thin layer essentially seals out the air. Friction or impact could disturb this thin layer causing ignition and burning until the amorphous phosphorus is consumed. The U.S EPA reported that during their National Enforcement Investigations Center (NEIC) inspection in May 2000, samples of brick ignited upon merely being exposed to air and did not require friction to cause ignition. In Rhodia's experience, friction through movement of the brick or from an external source is necessary for the amorphous phosphorus on brick to ignite. Rhodia has never observed ignition of the brick upon mere exposure to air.

² Monthly reports were submitted to U.S. EPA until the submittal schedule was changed to annual reporting as provided in the U.S. EPA's March 14, 2009 letter to Rhodia.

2.5.2.3.4 Kiln Brick and Concrete Debris

The kiln brick is a refractory lining that was removed from kilns used in the beneficiation of the phosphate ore. These bricks are the same material described in Section 2.5.2.3.3. These brick were not exposed to elemental phosphorus, and therefore, do not contain amorphous phosphorus. These brick were typically hauled to the coarse slag pile (SWMU 12) for disposal.

Concrete debris was generated during construction and demolition projects conducted at the Silver Bow Plant. Concrete foundation and structures were broken into manageable size pieces and hauled to the coarse slag pile (SWMU 12) for disposal. Further discussion of SWMU 12 is provided in Section 5.5.12.

2.5.2.3.5 Slag (Coarse and Granulated)

Slag is an inert rock-like material formed from the minerals in the nodulized phosphate ore, silica, and coke feedstocks in the phosphorus production furnace. Slag consists primarily of calcium silicate and is generally of cobble size. From the mid 1980's to 1997, the Silver Bow Plant granulated about 50 percent of the slag to a medium sand size, and stockpiled the granulated slag separately from the coarse slag. The coarse slag pile is identified as SWMU 12 and the granulated slag pile is designated SWMU 13. Historically, all material removed from the furnaces during a digout was placed in the slag pile or brick pile. This digout material included slag, furnace burden, used furnace brick, used furnace liner, and electrodes. During the last decade or so of operation, this material was placed in the southeast corner of the slag pile. Coarse and granulated slag is further discussed in detail in Sections 5.5.12 and 5.5.13 respectively.

2.5.2.3.6 Roaster Solids

After crude phosphorus sludge was roasted to recover additional phosphorus, residual roaster solids remained. Tests of this material show that it is about 40 percent CaO (lime), 30 percent P₂O₅ (phosphate), 15 percent SiO₂ (silica), 2 to 3 percent F (Fluoride), 1 to 2 percent Fe₂O₃ (iron oxide), and the balance (about 10 percent) is water. Like slag, roaster solids have been subjected to high heat, but unlike slag, roaster solids have not been melted and reconstituted as rock. Roaster solids are managed in SWMU 14. Roaster solids in SWMU 14 are discussed in detail in Section 5.5.14.

2.5.2.3.7 Precipitator Dust

Dust from the electrostatic precipitators, which were used to clean the furnace off-gas, was generated until early 1985 when the precipitators were shut down and removed from service. The precipitator dust that was generated during normal high temperature conditions did not contain elemental

phosphorus and was sold as a product. Precipitator dust that was generated during start-ups and other lower temperature conditions contained elemental phosphorus. This precipitator dust was either buried onsite (SWMU 15 Precipitator Dust Burial Area), or placed in pans (adjacent to the coarse slag pile) (SWMU 17 Removed Precipitator Dust Pans Area) and covered with slag (SWMU 16 Buried Precipitator Dust Pans Area). The buried precipitator dust and dust pans are further discussed in Sections 5.5.15 and 5.5.16 respectively. The precipitator dust placed in pans (SWMU 17) were removed and properly disposed offsite in 2002, as discussed in Section 5.5.17.

2.5.2.3.8 Residual Phosphate Ore

Phosphate ore was obtained from offsite mines located in Montana and Idaho. It was beneficiated into nodules in the kilns and became a feedstock for the furnace. Some residual ore remains at the Plant mostly mixed in the soil where it was piled (SWMU 6 Raw Material Area). The residual phosphate ore is further discussed in Section 5.5.6.

2.5.2.3.9 Residual Kiln Nodules

Kiln nodules are phosphate ore that was nodulized in the beneficiation kilns and fed as a feedstock to the electric arc furnaces. Some residual nodules remain at the Plant mostly mixed in the soil where they were piled (SWMU 6 Raw Materials Area). The residual kiln nodules are further discussed in Section 5.5.6.

2.5.2.3.10 Waste Oil

Waste oil was generated during equipment maintenance operations. Some waste oil was poured on the stockpile of phosphate ore (identified as SWMU 6 Raw Materials Area). This phosphate ore with waste oil was fed to the kilns where the oil was combusted in the high temperature kilns and is further discussed in Section 5.5.6.

2.5.2.3.11 Residual Coke and Coke Fines

Coke was used as a feedstock to scavenge oxygen in the furnace. Some residual coke remains at the Plant mostly mixed in the soil where it was piled (SWMU 6 Raw Materials Area and SWMU 9 Coke Storage Area). The residual coke and coke fines are further discussed in Section 5.5.9.

2.5.2.3.12 Residual Coal

Coal was used as a fuel for the kilns. Some residual coal remains at the Plant mostly mixed in the soil where it was piled (SWMU 10 Coal Stockpile Area). The residual coal is further discussed in Section 5.5.9.

2.5.2.3.13 Residual Silica

Silica was a feedstock that was used as a flux in the furnace. Some residual silica remains at the Plant mostly mixed in the soil where it was piled (SWMU 6 Raw Material Area). The residual silica is further discussed in Section 5.5.6.

2.5.2.3.14 Residual Ferrophosphorus

Ferrophosphorus is an iron-rich solid ingot produced at the Plant and stockpiled in the raw materials area. The ferrophosphorus was sold as a product. Some residual ingots of this material remain at the Plant mostly mixed in the soil were it was piled (SWMU 26). The residual ferrophosphorous is further discussed in Section 5.5.26.

2.5.2.3.15 Pipes and Tanks containing Elemental Phosphorus

As part of the demolition process, pipes, tanks and other process equipment that were to be scrapped were cleaned prior to being sold as scrap. The piping was mainly 2 to 4-inch stainless steel pipe that was used in the phosphorus handling department. Process tanks that contained phosphorus were also primarily stainless steel. These tanks stored either elemental phosphorus product that was ready to be shipped or crude phosphorus that was being processed. Other debris that contained phosphorus was equipment used in the furnace and condensing system. This equipment was either stainless steel or carbon steel and had phosphorus contamination on the surface, prior to cleaning.

2.5.3 Other Releases

Over the operational life of the Silver Bow Plant, releases to the ground surface have occurred. Process water was necessary to handle and transfer elemental phosphorus between process vessels and tanks. However, process vessels and tanks were sometimes overfilled, resulting in a release of phossy water and/or elemental phosphorus to the ground surface. Process equipment and pipes occasionally ruptured or leaked, and released their contents to the ground. These releases could have occurred throughout the furnace side of the production area including the areas around the clarifier, the roaster, product and crude phosphorus tanks and product and crude phosphorus transfer areas.

Typically, releases of elemental phosphorus resulted in a fire that was immediately extinguished by covering it with water, soil or slag. After extinguishing the fire, any remaining product on the ground was recovered and transferred to the crude phosphorus operations for further processing and recovery of the elemental phosphorus. Water used to extinguish the fire and/or phossy water that was released as a part of the spill would be collected by a system of drain troughs that led to the P4

Sump or #3 Catch Basin, by the storm sewer system, or would infiltrate into the ground. The collection systems discharged to the tailing basin.

2.6 References

- Barr Engineering Co. 2006. Current Conditions/Release Assessment Report Corrective Action Order on Consent Docket No. RCRA-08-2004-0001., Rhodia Silver Bow Plant, Butte, Montana, February 2006.
- Chavez, Joel (Montana Department of Environmental Quality). 2004. Personal communication.
- Montana Department of Environmental Quality (MDEQ) (Lead Agency) and United States Environmental Protection Agency (Support Agency). 1995. Record of Decision, Streamside Tailings Operable Unit, Silver Bow Creek/Butte Area (original portion), National Priorities List Site, Silver Bow and Deer Lodge Counties, Montana, November 1995.
- MDEQ, 2003. Letter stating agreement that as a result of the removal of the phosphorus material from the pans, the Tolling and Standstill Agreement terminated on November 1, 2002. January 26, 2003.
- MDEQ, 2004. Letter from Jan Sensibaugh, Director of MDEQ, to Ken Kastner, counsel for Rhodia. January 13, 2004
- Silver Bow County. 2004. Butte-Silver Bow Future Land Use Map, Published by the Planning Department at http://www.co.silverbow.mt.us/images/flu.pdf.
- UCAR, 1994. Material Safety Data Sheet. Carbon Block and Brick, Grade D. MSDS Number 4014. UCAR Carbon Company, Inc. Revision Date 2/94.
- U.S. Environmental Protection Agency, 2011, Third five-year review report for Silver Bow Creek/Butte Area Site, Volume 2: Stream side tailings operable unit (SSTOU), p. 92, plus Appendices.

Tables

Table 2-1

Unit Identification	Map ID	Materials/Wastes Managed	Dates of Operation	Description	Current Status (Entire Plant Area fenced and secured)	Contaminant of Potential Concern Catergory ¹
SWMU 1 Tailing Basin & Water Recirculation System	Figure 5.5.1-1a	 Wastewater from washing raw phosphate ore; Wastewater from production process; Phossy water and incidental crude phosphorus from clarifier overflow and catch basin discharge; Pond pH control water; Cooling water; Boiler Blowdown; Scrubber water air pollution control equipment on kilns and furnaces; Slag Granulator water; Storm water. 	1950's to 1997	Approximately 70 acres of pond area created by dam across Sheep Gulch. Dikes constructed to the north, west, and south to expand capacity of the Tailing basin. Water was conveyed to Basin via trough and pipes and recirculated via pipe. Tailing were dredged, dewatered and placed at locations with SWMU to deepen the Tailing basin. Sheep Gulch channel constructed to divert surface water flow around the south and west side of the Tailing basin in the late 1970's.	Tailing basin is currently dry. Areas of the basin have been covered with slag to minimize fugitive dust emissions from the dried Tailing. Magnesium chloride applied to areas not covered by slag every year for dust control.	General Chemical Analytes Elemental Phosphorus Metals Radionuclides
SWMU 2 Clarifier	Figure 5.5.2-1a	Excess crude phosphorus; Product phosphorus and wash water from railcar cleaning activities; Elemental phosphorus and wash water from decontamination activities during plant demolition.	1950's to 1997 1997 to current: water level maintenance	100 ft diameter concrete clarifier containing approximately 500,000 gallons of crude phosphorus material, which is covered by a water cap and 4" diameter plastic balls (Birdballs™). Water is added since clarifier loses water due to leakage and evaporation.	Subject of RCRA § 7003 Order. Immediate measures include security fence, and signage. Interim measures include automatic water level maintenance system, cover of Birdballs™, continuous phosphine monitoring system, and fence maintenance.	General Chemical Analytes Metals Elemental Phosphorus Radionuclides Phosphine
SWMU 3 Used Carbon Brick and Furnace Liner Pile	Figure 5.5.3-1a	 Used carbon brick, furnace liners, and slag; Used furnace electrodes. 	1950's to 1997	An outdoor stockpile of used carbon brick, furnace liners and electrodes, approximately 300 feet long by 30 feet wide by 10 feet high.	Subject of RCRA § 7003 Order. Immediate measures include security fence, and signage. Interim measures include netting to prevent birds from landing on the bricks.	Elemental Phosphorus Metals

¹ This column identifies categories of COPCs that warrant further evaluation based on knowledge of operations at each SWMU or AOC.

Table 2-1

Unit Identification	Map ID	Materials/Wastes Managed	Dates of Operation	Description	Current Status (Entire Plant Area fenced and secured)	Contaminant of Potential Concern Catergory ¹
SWMU 4 Used Carbon Blocks, Floor Logs & Furnace Liner Pile	Figure 5.5.4-1a	Used carbon brick and furnace liners	1950's to 1997	An outdoor stockpile of used carbon brick and furnace liners to the west of SWMU 3.	In place	Elemental Phosphorus Metals
		Carbon packing rings	Early 1980s to 1997	Separate pile of used carbon rings removed from hydration tower of the Phosphoric Acid Plant.	In place (Adjacent to used carbon brick and furnace liners).	None
SWMU 5 New and Used Carbon Block and New Carbon Brick	Figure 5.5.5-1a	New and Used Carbon Block and New Carbon Brick	1950's to 1997	Small outdoor stockpiles of new and used carbon electrodes and furnace brick.	In place	Elemental Phosphorus Metals
SWMU 6 Raw Materials Area	Figure 5.5.6-1a	 Phosphate Ore Coke Silica Kiln nodules Waste motor oil Coal 	1950's to 1997	Large separate stockpiles of raw materials were located on the east side of the property. Raw material stockpiles removed. Residuals remain mixed in soil. Waste motor oil from the maintenance shop was periodically spread on the phosphate ore, which was then processed in the kilns.	Residual raw materials are in soil.	 General Chemical Analytes Metals SVOCs Volatile Petroleum Hydrocarbons (VPH) Radionuclides
				Clay and topsoil also currently stockpiled in this area.		

¹ This column identifies categories of COPCs that warrant further evaluation based on knowledge of operations at each SWMU or AOC.

Table 2-1

Unit Identification	Map ID		Materials/Wastes Managed	Dates of Operation	Description	Current Status (Entire Plant Area fenced and secured)	Contaminant of Potential Concern Catergory ¹
SWMU 7 Elemental Phosphorus Production Area	Figure 5.5.7-1a	•	Process wastewater Phossy water	1950's to 1997	Production area of site where elemental phosphorus and crude phosphorus material were handled, processed, and stored. Production area includes furnace area, slag pits, phosphorus processing tanks, concrete silos, P4 Handling area, powerhouse area, roaster area, and granulation, and phosphoric acid plant. Phosphorus processing tanks were above ground or partially below ground. None of the tanks were more than partially below ground. Process water and phossy water may have been released to ground surface where it would have infiltrated. Although the clarifier is part of the production area, it is listed as a separate SWMU (see above).	Production facility was decontaminated during the demolition activities. Buildings were demolished and sold as scrap metal. Tanks, piping and equipment containing P4 were cleaned and recycled, except a few items stockpiled on site (see used pump area). The phosphorus storage tanks were above-ground stainless steel tanks, and have been cleaned and recycled. The phosphorus process tanks generally had bases recessed 4 feet into the ground, with the majority of the stainless steel tank above-ground. These tanks have also been cleaned and recycled. Foundations have been covered by 3 ft of soil/slag. Concrete silos and the kiln scrubbers remain.	Elemental Phosphorus Metals Radionuclides Phosphoric Acid
SWMU 8 Used Pump Area	Figure 5.5.8-1a	•	Worn-out pumps used in production process.	1988 to about 1993	Progressive cavity pumps that have been cleaned.	In place	Elemental Phosphorus
SWMU 9 Coke Fines Area	Figure 5.5.9-1a	•	Coke fines unsuitable for production process.	1950's to 1997	Coke fines located south of coarse slag pile and by roaster solids.	Residuals remain mixed in soil.	Metals
SWMU 10 Coal Stockpile Area	Figure 5.5.10-1a	•	Coal residues	mid 1980's to early 1990's	Former stockpile of coal used as auxiliary fuel for kilns.	Residuals remain mixed in soil	Metals
SWMU 11 Crude Phosphorus Burial Area	Figure 5.5.11-1a	•	Excess crude phosphorus buried in trenches just south of 100 foot clarifier.	Likely 1960's to late 1970's	Closed land disposal unit.	Capped with 40 ml synthetic membrane liner; and five feet of soil/slag cover.	General Chemical Analytes Elemental Phosphorus Metals Radionuclides

¹ This column identifies categories of COPCs that warrant further evaluation based on knowledge of operations at each SWMU or AOC.

Table 2-1

Unit Identification	Map ID		Materials/Wastes Managed	Dates of Operation	Description	Current Status (Entire Plant Area fenced and secured)	Contaminant of Potential Concern Catergory ¹
SWMU 12 Coarse Slag Pile	Figure 5.5.12-1a	•	Coarse slag excavated from the slag cooling pits; Furnace digout material, including some pieces of used furnace brick/liner; Used kiln bricks and miscellaneous construction debris; and Small amount of domestic refuse.	1950's to 1997	Several million ton stockpile of coarse slag material from the electric arc furnaces, located on the south side of the site, east of the Tailing basin.	In place	Elemental Phosphorus Metals Radionuclides
SWMU 13 Granulated Slag Pile	Figure 5.5.13-1a	•	Granulated slag from the granulation process.	1979 to 1995	Several million ton stockpile of granulated slag located on the southeast side of the site and east of the coarse slag stockpile.	In place	Metals Radionuclides
SWMU 14 Roaster Solids Area	Figure 5.5.14-1a	•	Solid materials from the roaster operations.	1950's to 1997	Stockpile of sand-like material from roaster operation, located north of granulated slag stockpile.	In place	Metals Radionuclides Elemental Phosphorus
SWMU 15 Precipitator Dust Burial Areas	Figure 5.5.15-1a	•	Dust recovered by electrostatic precipitators.	1950's to late 1970's	Closed land disposal unit located north of coarse slag pile with a small area just east of Tailing basin return water channel.	Capped with 40 ml synthetic membrane liner; and 4½ feet of slag/soil cover.	Elemental Phosphorus Metals
SWMU 16 Buried Precipitator Dust Pans Area	Figure 5.5.16-1a	•	Dust recovered by electrostatic precipitators.	late1970's to mid 1980's	Past operators report there are buried steel precipitator dust pans covered with several feet of soil and granulated slag. Located northeast of precipitator dust burial site.	Capped in place.	Elemental Phosphorus Metals
SWMU 17 Removed Precipitator Dust Pans	Removed in 2002 Figure 5.5.17-1a shows former location.	•	Dust recovered by electrostatic precipitators.	late 1970's to mid 1980's	Eight pans of precipitator dust placed at the north edge of the coarse slag pile and covered with slag during plant operations.	Subject of April 2002 Standstill Agreement. Pans were emptied and cleaned during 2002. The contents were disposed of by incineration at Trade Waste Incinerator. The cleaned pans were recycled.	• None

¹ This column identifies categories of COPCs that warrant further evaluation based on knowledge of operations at each SWMU or AOC.

Table 2-1

Identification of Solid Waste Management Units and Areas of Concern (SWMUs/AOCs) Current Conditions/Release Assessment Report Rhodia Silver Bow Plant

Unit Identification	Map ID	Materials/Wastes Managed	Dates of Operation	Description	Current Status (Entire Plant Area fenced and secured)	Contaminant of Potential Concern Catergory ¹
SWMU 18 Scrap Steel and Scrap Tin Bales Area	Figure 5.5.18-1a	Scrap steel and scrap tin from demolition.	1998 to 1999	Scrap steel and scrap tin from demolition of plant. Most of the tin material is baled.	In place	Metals Radionuclides
SWMU 19 Refuse Disposal Area	Figure 5.5.19-1a	Domestic garbage from plant and miscellaneous site refuse.	1950's to late 1970's	Closed land disposal unit located northeast of Tailing basin.	Capped with 3 feet of slag and soil.	Metals Elemental Phosphorus
SWMU 20 Scrap Steel and Equipment Burial Area	Figure 5.5.20-1a	Equipment and steel that may contain P4.	1950's to late 1970's	Closed land disposal unit located east of kiln production area and northeast of Tailing basin .	Capped with 40 ml synthetic membrane liner; and 4½ feet of slag/soil cover.	Metals Elemental Phosphorus Radionuclides
SWMU 21 Former Transformer Locations and Transformer Storage Area	Figure 5.5.21-1a	Former locations of PCB-contaminated transformers, and Former location of PCB contaminated transformer storage area .	1950's to 1998	Locations in the production process area where PCB contaminated transformers were used or stored prior to off-site disposal.	PCB-contaminated transformers were disposed of off-site. Confirmatory sampling performed and no PCB releases detected. PCB-contaminated equipment drained and disposed of offsite during plant demolition.	PCBs SVOCs
SWMU 22 Slag Granulation Water and Temporary Retention Ditch Area	Figure 5.5.22-1a	Overflow from slag granulation system (recycled pond water).	1979 to 1995	Ditch used for temporary retention of recycled pond waters that ordinarily were discharged to Tailing basin .	In place	Metals Elemental Phosphorus
SWMU 23 Septic Tanks & Septic Drain Field	Figure 5.5.23-1a	Sewage from lavatories and locker rooms. Sink drains from laboratory. Laboratory discharges (acids and solvents).	Old drain field: Early 1970's to early 1980's New drain field: Early 1980's to late 1990s Addition to New Drain Field: Late 1990s to present	Seven septic tanks near the plant, and perforated plastic pipe in the drain field	Portion of the drain field area is still in use, but for sanitary wastes only (see Dates of Operation)	VOCs SVOCs General Chemical Analytes Elemental Phosphorus Metals

¹ This column identifies categories of COPCs that warrant further evaluation based on knowledge of operations at each SWMU or AOC.

Table 2-1

Identification of Solid Waste Management Units and Areas of Concern (SWMUs/AOCs) Current Conditions/Release Assessment Report Rhodia Silver Bow Plant

Unit Identification	Map ID	Materials/Wastes Managed	Dates of Operation	Description	Current Status (Entire Plant Area fenced and secured)	Contaminant of Potential Concern Catergory ¹
SWMU 24 Discharge Pipe Area	Figure 5.5.24-1a	 Sewage from lavatories and locker rooms. Sink drains from laboratory Cooling water Process water Storm drainage 	1950's to early 1970's	Concrete sewer that discharged to Silver Bow Creek.	Discharge Pipe under German Gulch Road has been cleaned and plugged. Pipe north of German Gulch Road has been removed pursuant to AOC and MOA. This SWMU includes only the remaining discharge pipe south of German Gulch Road.	Elemental PhosphorusMetals
SWMU 25 Containment Pad Area	Figure 5.5.25-1a	 Precipitator Dust P4 in scrap pipe and miscellaneous equipment. Discharge pipe residuals. 	2002 to present	Used to clean and drum precipitator dust, P4 contaminated scrap metal and equipment, and discharge pipe residuals. Containment pad constructed to RCRA standards. P4 materials incinerated at Trade Waste Incinerator. Metal pipe and equipment was recycled.	In place and available for use.	Elemental Phosphorus Metals Radionuclides
SWMU 26 Ferrophosphorus Area	Figure 5.5.26-1a	Ferrophosphorus	1950's to 1997	Stockpile of ferrophosphorus was located on the east side of the property. Ferrophosphorus stockpile removed. Residuals remain mixed in soil.	Residual ferrophosphorus is in soil.	Elemental Phosphorus Metals Radionuclides
SWMU 27 Final Pump Station	5.5.27-1a	Storm water runoff; Overflow water from the slag pits (pond water); Overflow water from the Moat; Pond water overflows; Discharges from the kiln dust collector scrubbers; Various well water overflows and drains.	1972 to present	Concrete sump to collect process water prior to pumping to the tailing basin.		Metals Elemental Phosphorus

¹ This column identifies categories of COPCs that warrant further evaluation based on knowledge of operations at each SWMU or AOC.

Table 2-1

Identification of Solid Waste Management Units and Areas of Concern (SWMUs/AOCs) Current Conditions/Release Assessment Report Rhodia Silver Bow Plant

Unit Identification	Map ID	Materials/Wastes Managed	Dates of Operation	Description	Current Status (Entire Plant Area fenced and secured)	Contaminant of Potential Concern Catergory ¹
AOC A Petroleum Storage Areas	Figure 5.5.28-1	 Former and present locations of petroleum storage tanks. Shop area where equipment was fueled and maintained. Final Pump Station – Diesel Fuel Tanks. 	1950's to present	The following tanks have been used for petroleum storage at the Plant: two underground gasoline tanks, five large above-ground diesel storage tanks, and the following smaller above-ground tanks:, a 1000 gallon gasoline tank, a 200 gallon portable diesel tank a 100 gallon diesel tank at the Final Pump Station, and at the Shop Building, three 1,000 gallon lubricating oil tanks and one 200 gallon waste oil tank. The two underground gasoline tanks were removed in the late 1980's. There was no evidence of contamination when they were removed. Three of the five large above-ground diesel tanks have been removed. All of the above ground tanks had containment dikes with soil bottoms.	The two underground gasoline tanks were removed. Three of the five large above-ground diesel tanks have been removed, and the two remaining tanks are empty and are not used. There is stained soil in the containment areas of the two remaining large diesel storage tanks. The 1,000 gallon above-ground gasoline storage tank was sold on February 1, 2006 and was removed. The 200 gallon portable above-ground diesel tank, currently unused, is stored next to the brick shed. Final Pump Station 100 gallon above-ground diesel tank. Shop Building Three 1000 gallon above-ground lubricating oil tanks. One 200 gallon above-ground waste oil tank.	Volatile Petroleum Hydrocarbons (VPH) Metals (Waste Oil)
AOC B Sulfuric Acid Tank Area	Figure 5.5.29-1	Sulfuric acid	1952 to 1996	Above ground storage tank used to store sulfuric acid for the P4 handling process. Tank was located in north area of the P4 Handling area. Known spills of acid to ground surface.	Tank removed and area covered with several feet of soil and slag.	Sulfuric Acid General Chemical Analytes Metals

¹ This column identifies categories of COPCs that warrant further evaluation based on knowledge of operations at each SWMU or AOC.

Table 2-2

Process Water Flow Rate and Water Quality Summary¹
Rhodia Silver Bow Plant

Source	Stream	Flow ¹	As	Ва	Cd	Cr	Pb	Hg	Nitrate	Se	F	
		[gpm]	[mg/L]	[mg/L]	[mg/L]	рН						
#3 Catch Basin .	Process Water, Slag Cooling	350	0.339	0.092	0.085	0.246	0.519	0.001	NA	ND	NA	6
100-foot Clarifier	Process Water	300	0.339	0.092	0.085	0.246	0.519	0.001	NA	ND	NA	6
Kiln Feed Building Moat	Material Handling Water	300	NA	NA	NA	NA						
#1 Kiln Scrubber	Emissions Control	1,200	1.81	0.087	18.7	0.201	0.517	0.007	ND	ND	122	2
#2 Kiln Scrubber	Emissions Control	1,800	1.81	0.087	18.7	0.201	0.517	0.007	ND	ND	122	2
Lime Treatment	pH Treatment	90	NA	NA	NA	NA						
Hazelton Line	Slag Granulation	4,500	NA	NA	NA	NA						
Final Pump Station	Slag Cooling and Miscellaneous	2,000	NA	NA	NA	NA						
Total		10,540										
Pond Return	From Tailing Basin	10,000	0.5	0.272	6	0.054	0.07	ND	NA	0.266	NA	5

Notes:

NA = Not available.

ND = Not detected.

¹This table is adapted from Table 1 of the 1996 report Silver Bow Plant Tailings Pond and Groundwater Review, attached as Appendix I of the CCRA. The concentration, including those reported for Pond Return are analytical data, not mass balance calculated concentrations. Flows were estimated or measured by plant personnel.

Appendices

Appendix 2-A Legal Description of Property

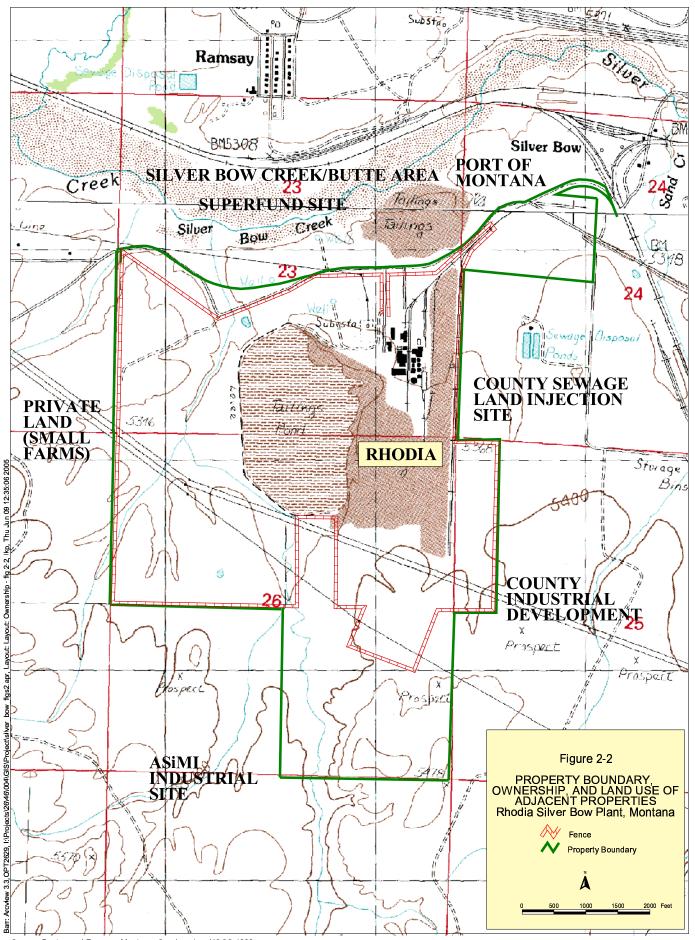
Appendix 2 – A

Legal Description

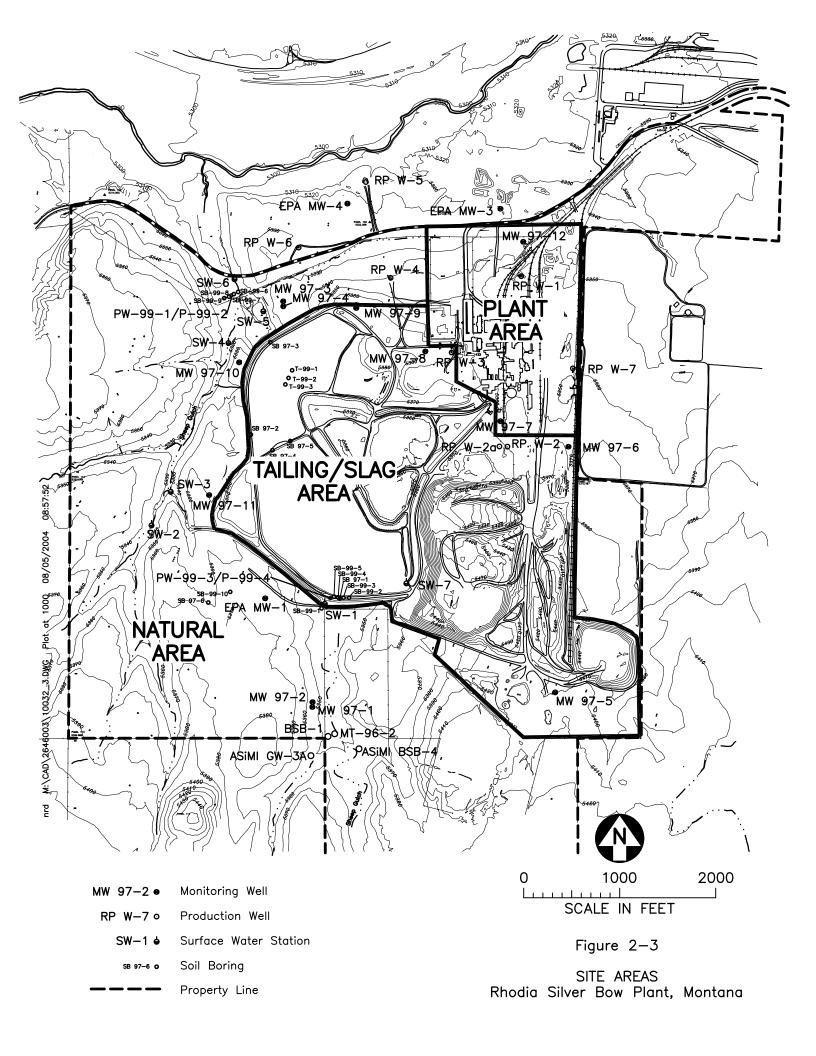
The Rhodia Silver Bow Plant site is located in Silver Bow County approximately seven miles west of Butte, Montana and approximately one mile south of Ramsey, Montana. The site occupies approximately 1.25 square miles in sections 23, 24, 25, and 26 in Township 3 North, Range 9 West (Figure 1-2). Specifically, the property description is as follows.

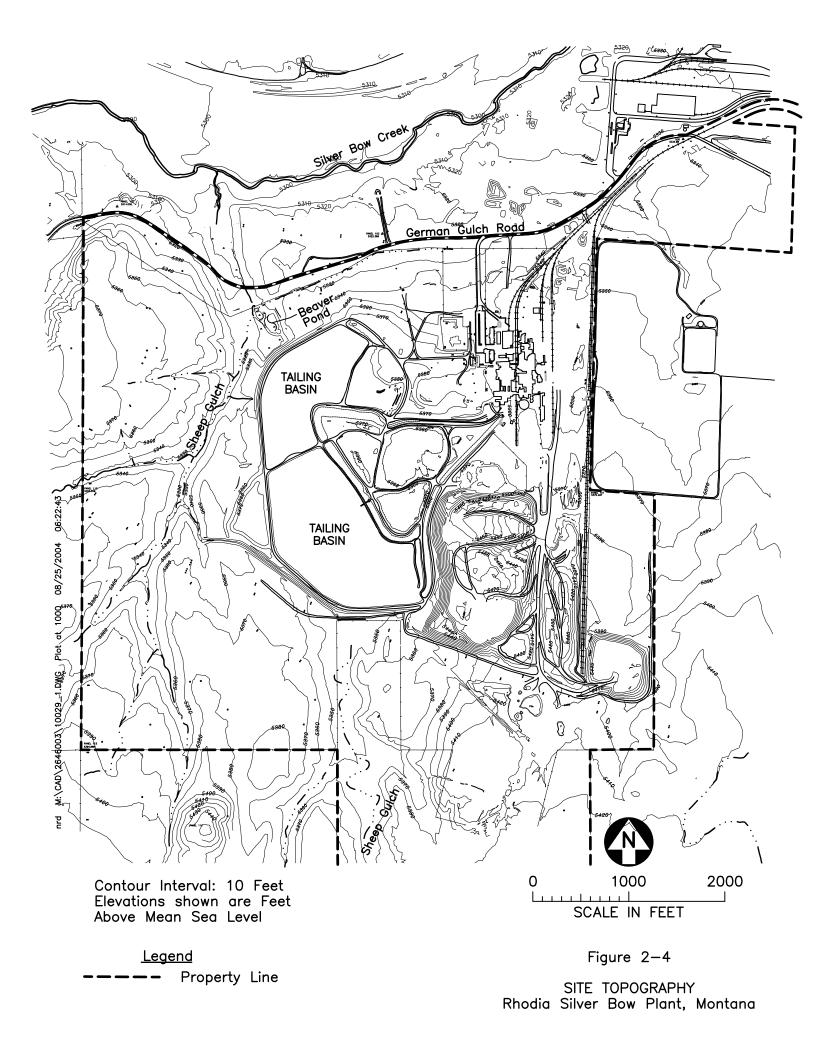
Section 23:	Portion S2N2, Portion S2
Section 24	S1/2 NW1/4 (NORTHWEST PLACER #6114)
Section 25:	W1/2 W1/2 NW1/4 – Portion of Nameless Placer
Section 26	Nameless Placer-NE1/4, Lillian Placer-NW1/4, & M.S. 470 (M.E. 372-Lot 39), SE1/4, Portion Katherine Placer Embracing Government Lots 8, 9, 10

Appendix 2-B Select CCRA Figures



Source: Buxton and Ramsay, Montana, Quadrangles, USGS 1989



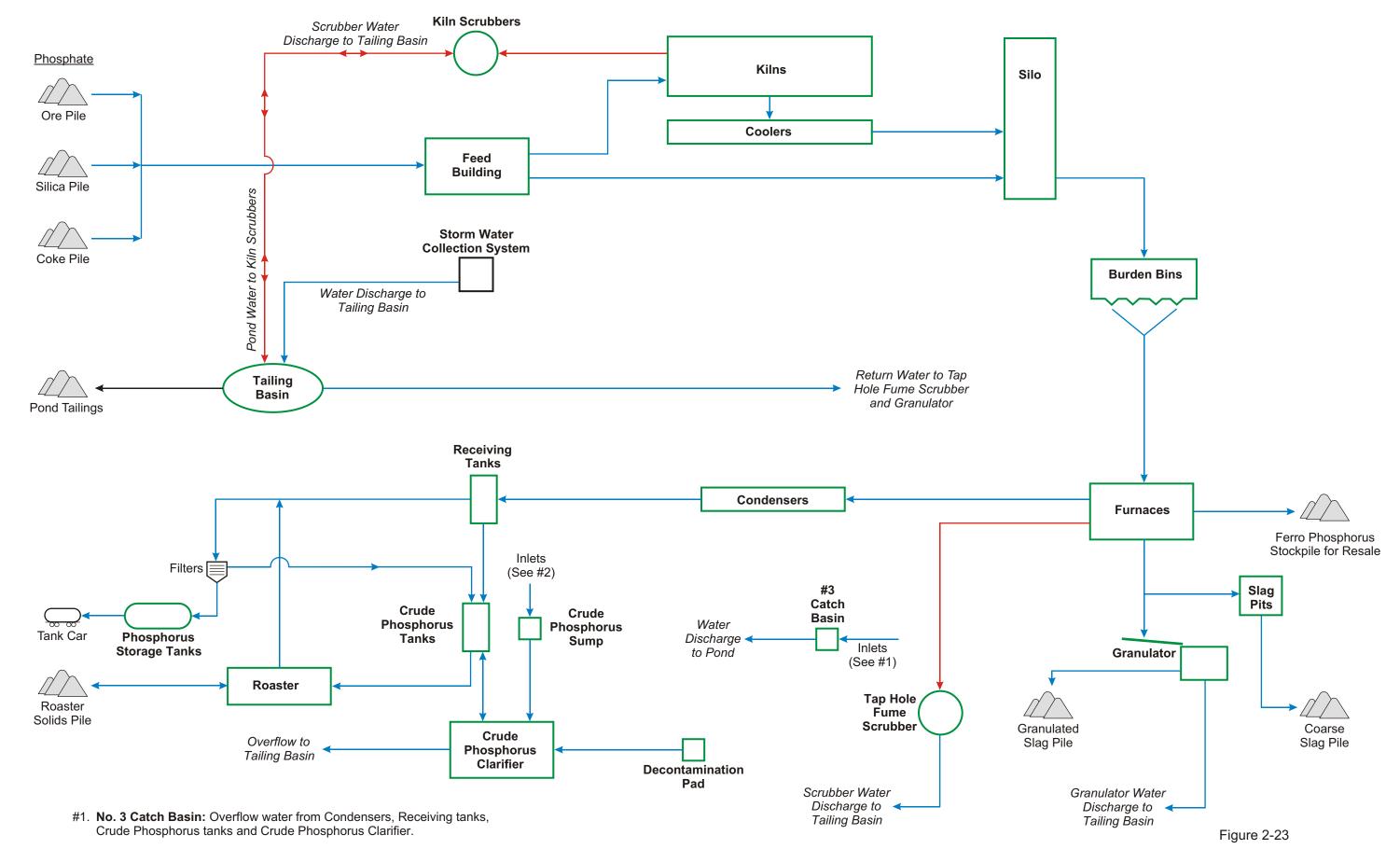




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Approximate Scale in Feet

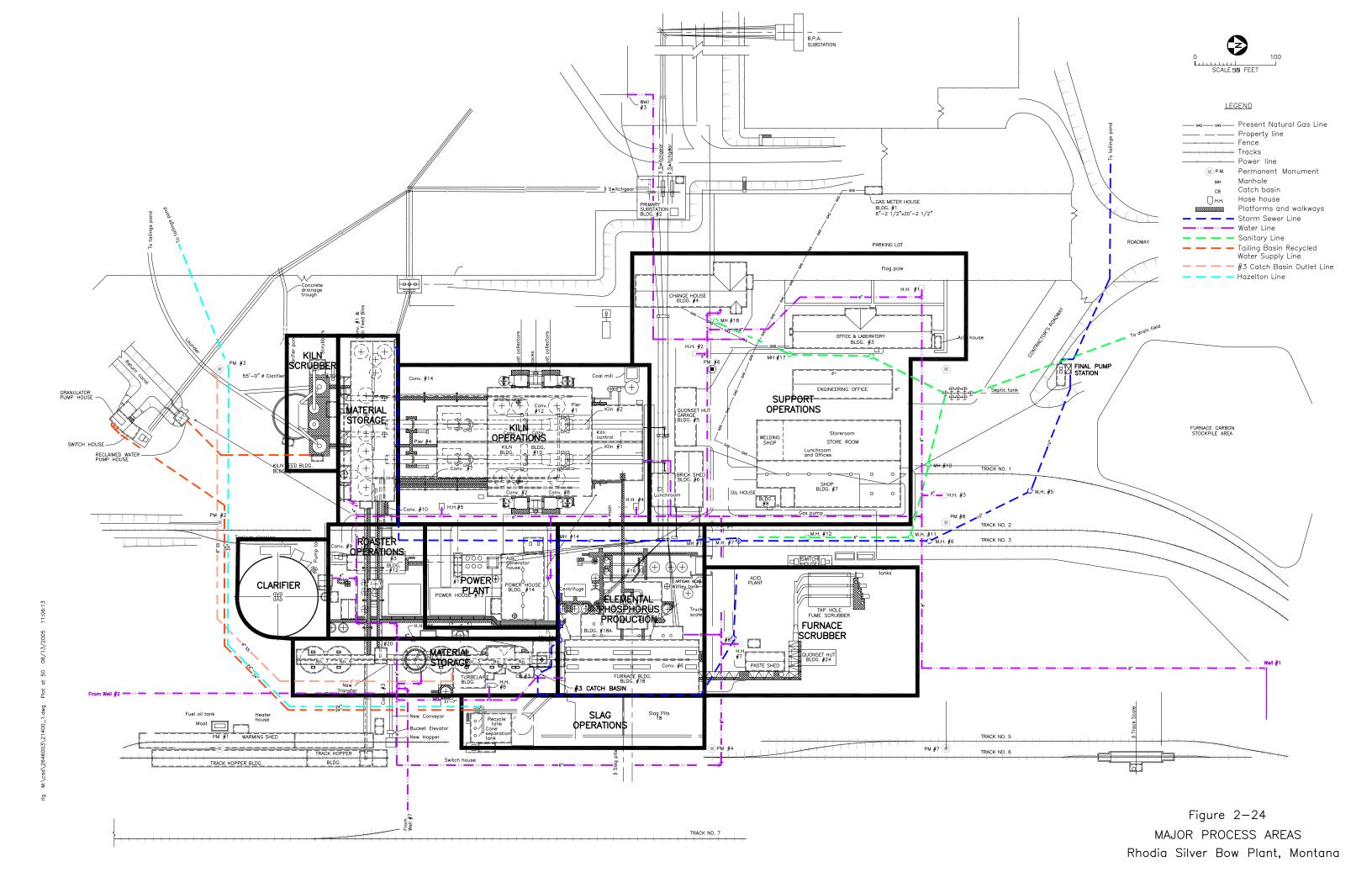
AERIAL PHOTO: August 27, 1947 (Pre-Plant)

Figure 2-6



#2. **Crude Phosphorus Sump:** Overflow water from Condensers, Receiving tanks and Crude Phosphorus tanks.

PROCESS FLOW DIAGRAM: ELEMENTAL PHOSPHORUS PRODUCTION





0 1000 2000 Approximate Scale in Feet

AERIAL PHOTO: July 25, 1954 (Plant Present, Pre-Tailing Basin)

Rhodia Silver Bow Plant, Montana



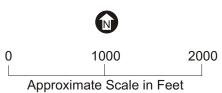
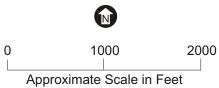


Figure 2-26 AERIAL PHOTO: July 30,1977

Rhodia Silver Bow Plant, Montana





AERIAL PHOTO: August 18, 1985 Rhodia Silver Bow Plant, Montana



0 1000 2000
Approximate Scale in Feet

AERIAL PHOTO: August 4, 1990



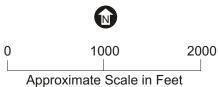
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Approximate Scale in Feet

Figure 2-29

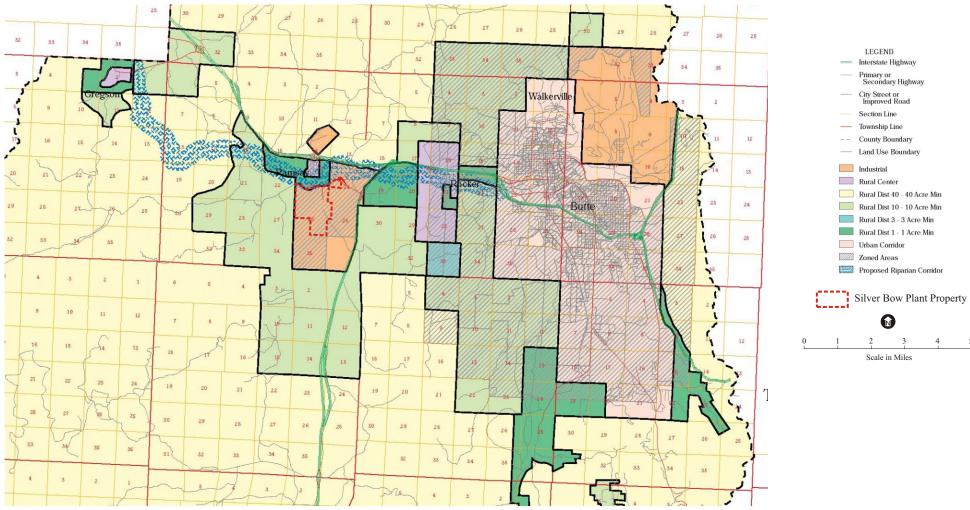
AERIAL PHOTO:
August 1, 1995

Rhodia Silver Bow Plant, Montana



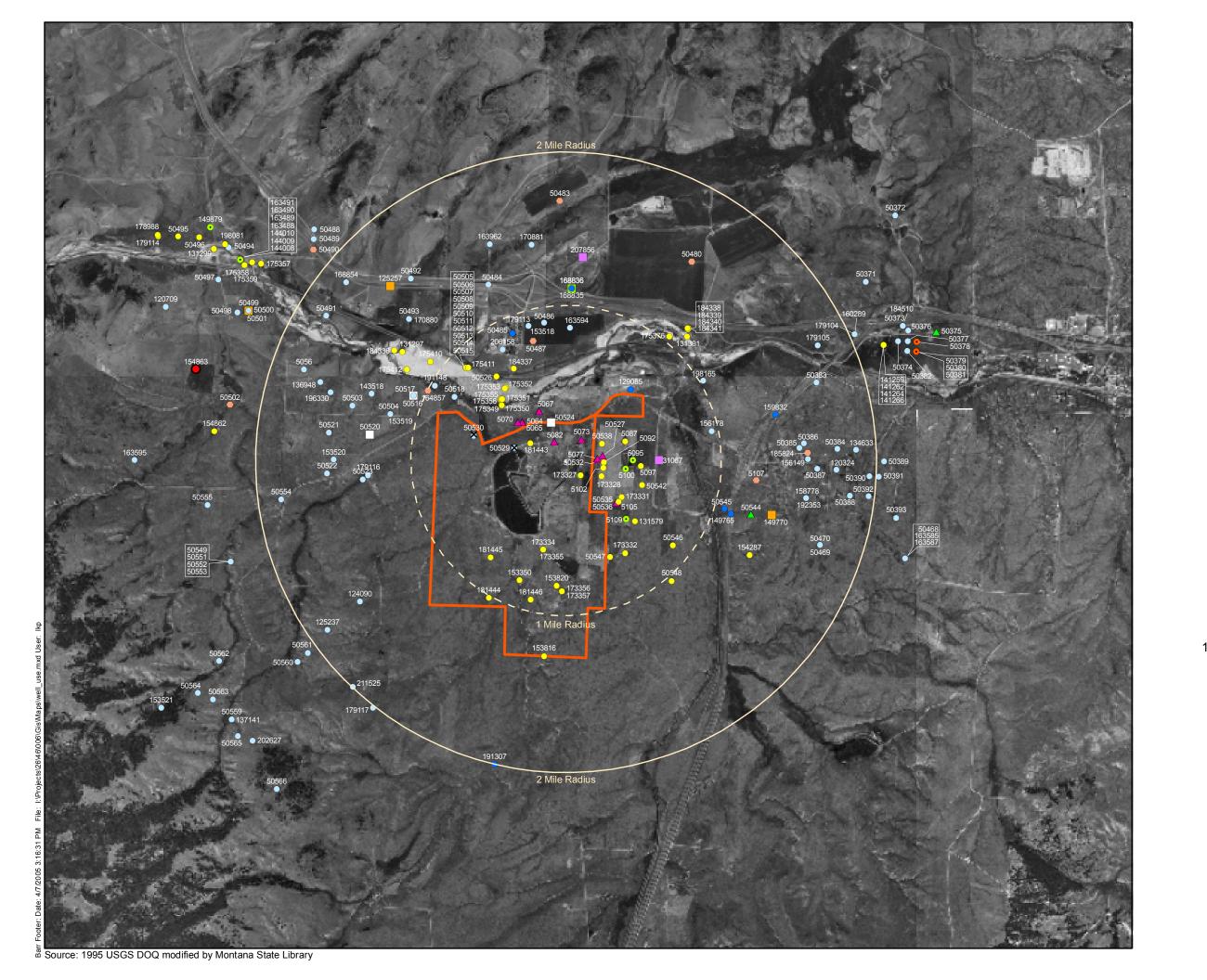


AERIAL PHOTO: September 2 &12, 2002



SOURCE: Butte-Silver Bow Local Government Website, Butte-Silver Bow Growth Plan, 1995.

Figure 2-31
FUTURE LAND USE IN BUTTE-SILVER BOW, MONTANA



WELL USE

- NOT SPECIFIED
- COMMERCIAL
- DOMESTIC
- FIRE PROTECTION
- ▲ INDUSTRIAL
- IRRIGATION
- MONITORING
- OTHER
- PUBLIC WATER SUPPLY
- RESEARCH
- STOCKWATER
- □ UNKNOWN
- UNUSED
- PROPERTY BOUNDARY
- Misidentified locations on Rhodia property (wells 50530 & 50529)



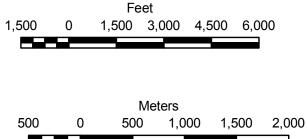


Figure 2-32

WELLS WITHIN 2-MILE RADIUS Rhodia Silver Bow Plant, Montana

Appendix 2-C

Photographs of Tailing Basin Dike During Construction



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58-275



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Appendix 2-D

Sewage Injection (Appendix R of the CCRA)

Appendix R

County Sewage Land Injection Site

The County Sewage Land Injection Site (CSLIS) is located just east of the Rhodia Silver Bow Plant as shown on Figure R-1. The CSLIS operated from the mid to late 1970s until 1996/1997 when it was shut down by the Butte Silver Bow Metro Sewer. Tables R-1, R-2, and R-3 summarize selected metals and other inorganic parameter concentrations in the injection site sludge, soil, and ground water, respectively. Each table lists the concentration and date of the earliest sample, possibly intermediate date samples, and the most recent sample found in the historical data that Barr obtained from the county. There are many more sampling events than are summarized in these tables. There may be some earlier samples than shown, but inconsistencies in analytical methods make some early data incommensurate with the later sample data. The earliest samples shown were selected because the analytical methods appear to be consistent with those of later dates.

Table R-1 shows a selection of data from tests of the sludge injected at the site. The table has sludge analyses from June, 1994, May 1995, June 1996, and February, 1997 (every fourth sample in a data table provided by Metro Sewer). Arsenic, cadmium, fluoride, and selenium were all found in the sludge. Arsenic concentrations in the sludge ranged as high as 89 mg/kg in the samples. Cadmium concentrations were generally near 10 mg/kg, but ranged as high as 22 mg/kg in the samples (7/30/96 sample, not shown in Table R-1). Fluoride concentrations ranged as high as 1140 mg/kg. Total phosphorus was generally around 2% to 3%. Selenium concentrations ranged as high as 78 mg/kg. The County also analyzed for other metals and nitrogen compounds.

Table R-2 is data from soil analysis. Soil samples were collected from the north and south ends of the injection site. Each location was sampled at the ground surface, 24 inches below ground surface (bgs), and 36 inches bgs. The earliest data ranges from 1981 to 1990, and the most recent data is from 1995. The samples generally show no strong trends over time. Other than an expected decrease in inorganic concentrations with depth, changes in concentrations of most parameters with time were minimal. The data in Table R-2 should not be taken to be representative of typical conditions toward the beginning or the end of the sewage injection, because the soil showed considerable variability throughout the duration. The data provide an indication of the parameters and concentrations present at the sewage injection site.

Table R-3 shows groundwater sample results for 4 monitoring wells at the injection site. Figures R-1 and R-2 show the locations of the wells at the site. Groundwater is expected to flow from southeast to northwest across the county property. Wells C and D are on the upgradient side of the site, F is downgradient, and B is sidegradient on the west. A is also downgradient, but there were no data available for that well. There is no well E because it was a dummy location used for duplicate samples of other wells.

The earliest data are from either September 1982 or February 1991, depending on the parameter. There were no noticeable changes in concentrations in samples from upgradient wells C and D. Over the course of the monitoring, there appears to have been a general increase in several parameter concentrations at downgradient well F. Among these are arsenic, chloride, phosphate, and orthophosphate.

Table R-1
Injection Site
Sludge Analysis

	Date						
Parameter	6/2/1994	5/2/1995	6/6/1996	2/6/1997			
Arsenic, mg/kg	21	89	63	27			
Cadmium, mg/kg	10	<10	13	13			
Chromium, mg/kg	69	67	<35	20			
Fluoride, mg/kg	3.9	1140	760	200			
Lead, mg/kg	270	200	170	160			
Mercury, mg/kg	3.7	<1	13	3			
Phosphorus, %	2.5	3.22	2.54	2.6			
Potassium, %	0.56	1.78	0.96	5.2			
Selenium, mg/kg	78	11	<35	5			

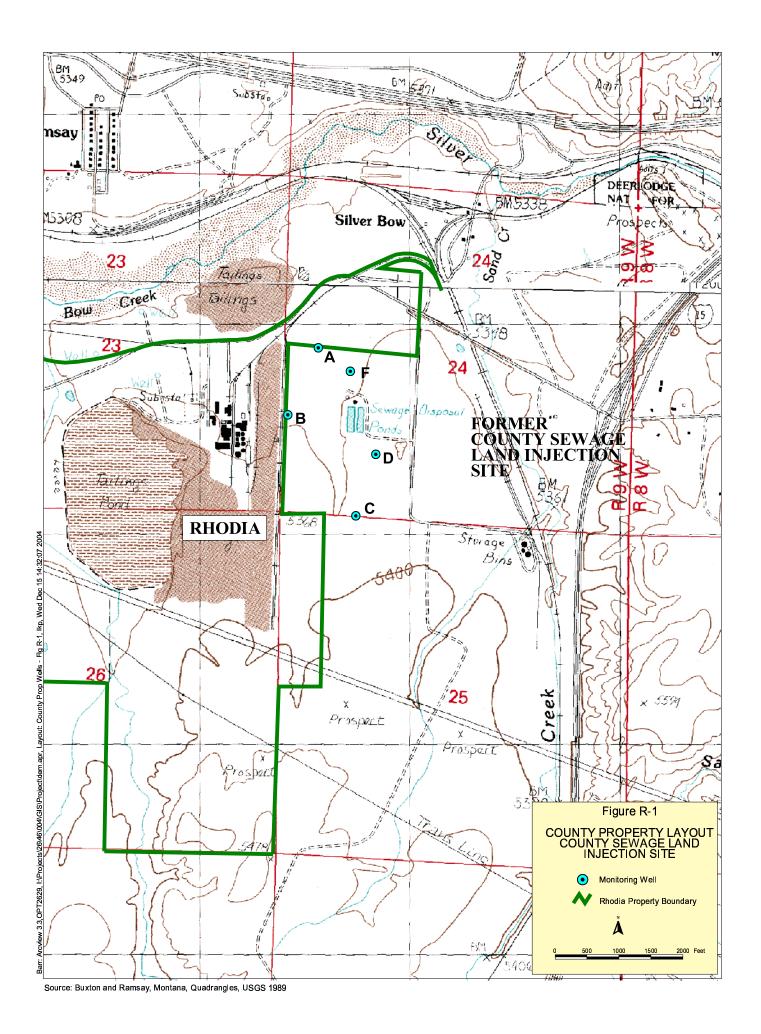
Table R-2
Injection Site
Soil Analysis

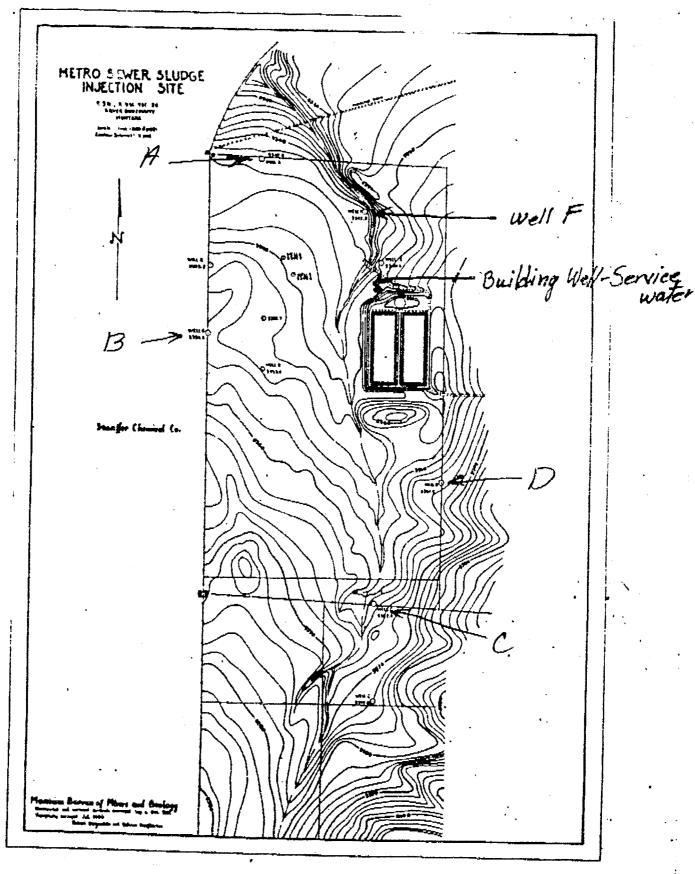
	Noi	th Surface	9	South Surface	
Parameter	(mg/kg)	Year	(mg/kg)	Year	Parameter (mg/kg) Year (mg/kg) Year
Arsenic	44	1983	10	1995	Arsenic 31 1983 13 1995
Cadmium	4	1983	2	1995	Cadmium 3.7 1983 3 1995
Chromium	19	1983	8	1995	Chromium 68 1983 9 1995
Fluoride	130	1984	134	1995	Fluoride 75 1984 117 1995
Lead	44	1983	31	1995	Lead 32 1983 32 1995
Mercury	ND	1984	<1	1995	Mercury ND 1984 <1 1995
Phosphorus	155	1981	2160	1995	Phosphorus 155 1982 2400 1995
Potassium	1130	1981	2650	1995	Potassium 1350 1982 2650 1995
Selenium	0.41	1983	<5	1995	Selenium 0.08 1983 <5 1995
	N	lorth 24"			South 24"
Parameter	(mg/kg)	Year	(mg/kg)	Year	Parameter (mg/kg) Year (mg/kg) Year
Arsenic	14	1990	<5	1995	Arsenic 12 1990 <5 1995
Cadmium	ND	1990	<1	1995	Cadmium ND 1990 <1 1995
Chromium	30	1990	<5	1995	Chromium 25 1990 5 1995
Fluoride	84	1990	100	1995	Fluoride 109 1990 87 1995
Lead	ND	1990	8	1995	Lead ND 1990 9 1995
Mercury	ND	1990	<1	1995	Mercury ND 1990 <1 1995
Phosphorus	810	1990	134	1995	Phosphorus 1120 1990 960 1995
Potassium	6570	1990	3560	1995	Potassium 5740 1990 2610 1995
Selenium	ND	1993	<5	1995	Selenium 62 1990 49 1995
		lorth 36"			South 36"
Parameter	(mg/kg)	Year	(mg/kg)	Year	Parameter (mg/kg) Year (mg/kg) Year
Arsenic	15	1983	<5	1995	Arsenic 16 1983 <5 1995
Cadmium	0.1	1983	<1	1995	Cadmium 0.12 1983 <1 1995
Chromium	8.1	1983	<5	1995	Chromium 12 1983 <5 1995
Fluoride	76	1984	8.3	1995	Fluoride 122 1984 91 1995
Lead	5.3	1983	13	1995	Lead 7.2 1983 10 1995
Mercury	ND	1984	<1	1995	Mercury ND 1983 <1 1995
Phosphorus	31	1982	620	1995	Phosphorus 6 1982 750 1995
Potassium	1870	1982	3300	1995	Potassium 1640 1982 2720 1995
Selenium	0.17	1983	<5	1995	Selenium 0.22 1983 <5 1995

Table R-3
Injection Site Well Samples
Groundwater Analysis

	Well B						Well C					
Parameter	Conc.	Date	Conc.	Date	Conc.	Date	Conc.	Date	Conc.	Date	Conc.	Date
Arsenic (µg/L)	3.2	Feb-91	<5	May-95	<5	Jun-98	4.8	Feb-91	6	May-95	<5	Jun-98
Cadmium (µg/L)	<2	Sep-82	<1	May-95	<1	Jun-98	<2	Sep-82	<1	May-95	<1	Jun-98
Chloride (mg/L)	54	Sep-82	120	May-95	93	Jun-98	12.5	Sep-82	14	May-95	17	Jun-98
Chromium (µg/L)	<2	Sep-82	<10	May-95	<10	Jun-98	2	Sep-82	<10	May-95	<10	Jun-98
Fluoride (mg/L)	0.5	Sep-82	0.19	May-95	0.2	Jun-98	0.3	Sep-82	0.29	May-95	0.25	Jun-98
Lead (µg/L)	<40	Sep-82	<10	May-95	<10	Jun-98	80	Sep-82	20	May-95	<10	Jun-98
Manganese (mg/L)	0.004	Sep-82	<0.01	May-95	<0.01	Jun-98	0.003	Sep-82	<0.01	May-95	<0.01	Jun-98
Mercury (µg/L)	<0.04	Feb-91	<1	May-95	<1	Jun-98	0.11	Feb-91	<1	May-95	<1	Jun-98
Orthophosphate (mg/L-P)	<0.1	Feb-91	0.12	May-95	0.04	Jun-98	<0.1	Feb-91	0.2	May-95	0.04	Jun-98
Phosphate (mg/L-P)	0.16	Sep-82	0.28	May-95	0.02	Jun-98	0.27	Sep-82	0.25	May-95	0.09	Jun-98
Potassium (mg/L)	8.7	Sep-82	11	May-95	10	Jun-98	3	Sep-82	7	May-95	7	Jun-98
Selenium (μg/L)	1.6	Oct-92	<5	May-95	<5	Jun-98	0.8	Oct-92	<5	May-95	<5	Jun-98
Sulfate (mg/L)	45.1	Sep-82	78	May-95	59	Jun-98	19.3	Sep-82	20	May-95	24	Jun-98

	Well D							Well F						
Parameter	Conc.	Date	Conc.	Date	Conc.	Date	Conc.	Date	Conc.	Date	Conc.	Date		
Arsenic (µg/L)	4.4	Feb-91	<5	May-95	<5	Jun-98	2.9	Feb-91	5	May-95	5	Jun-98		
Cadmium (µg/L)	<2	Sep-82	<1	May-95	<1	Jun-98	2	Jul-83	<1	May-95	<1	Jun-98		
Chloride (mg/L)	10.9	Sep-82	12	May-95	13	Jun-98	19.3	Jul-83	10	May-95	19	Jun-98		
Chromium (µg/L)	<2	Sep-82	<10	May-95	<10	Jun-98	<2	Jul-83	<10	May-95	<10	Jun-98		
Fluoride (mg/L)	0.3	Sep-82	0.29	May-95	0.26	Jun-98	0.3	Jul-83	0.11	May-95	<0.1	Jun-98		
Lead (µg/L)	<40	Sep-82	<10	May-95	<10	Jun-98	<40	Jul-83	10	May-95	<10	Jun-98		
Manganese (mg/L)	0.009	Sep-82	<0.01	May-95	<0.01	Jun-98	0.024	Jul-83	<0.01	May-95	<0.01	Jun-98		
Mercury (µg/L)	0.05	Feb-91	<1	May-95	<1	Jun-98	<0.04	Feb-91	<1	May-95	<1	Jun-98		
Orthophosphate (mg/L-P)	<0.1	Feb-91	0.2	May-95	0.1	Jun-98	0.16	Jul-83	1.32	May-95	1.55	Jun-98		
Phosphate (mg/L-P)	0.22	Sep-82	0.32	May-95	0.09	Jun-98	<0.1	Feb-91	2.2	May-95	1.66	Jun-98		
Potassium (mg/L)	6.8	Sep-82	7	May-95	7	Jun-98	8.3	Jul-83	18	May-95	15	Jun-98		
Selenium (µg/L)	<0.8	Oct-92	<5	May-95	<5	Jun-98	<0.8	Oct-92	<5	May-95	<5	Jun-98		
Sulfate (mg/L)	15.7	Sep-82	18	May-95	17	Jun-98	42	Jul-83	88	May-95	71	Jun-98		





Mr. Fred Wendt 406.723.8262 Metro Sewer FIGURE R-2 COUNTY SEWAGE LAND INJECTION SITE. TOPOGRAPHY AND WELL LOCATIONS

Appendix 2-E MBMG Database – Well Information

The column The	IGWIC ID DNRC ID																					
Column																						
Company Comp	0000																LINDSAY	4/16/1982				1/4X4 SAW PERFS
Property of the property 1.5																						
Second Company March Mar																	PRICE & LINDS	8/1/1954				1/ IN SLOTS
Column	***																					
The content of the	5077																					
Column	5082	RHONE-POULENC CHEMICALS * WELL 4	45.9955 -1	112.6797 L	JNKNOWN	NAD27	03N 0	9W 23 E	DBAD YES	WELL 1	120SDMS 4	100.00 3	5.00 40.5	350.0	0.0	0.00	PRICE & LINDS	8/1/1954	INDUSTRIAL	46.0 50.0	10 0	1/4 IN SLOTS
The content of the	5087	BUTTE-SILVERBOW METRO SEWER SLUDGE WELL-F	45.9958 -1	112.6702 L	JNKNOWN		03N 0	9W 24 C	CBAC YES	WELL 1	120SDMS 4	13.00	8.74 28.0	2.5	0.0	0.00		6/10/1983	MONITORING	23.0 43.0	0 0	SAW SLOTS
The state of the property of the color of	5092	BUTTE-SILVERBOW METRO SEWER SLUDGE WELL-A	45.9938 -1	112.6730 L	JNKNOWN		03N 0	9W 24 C	CBCC YES	WELL 1	120SDMS 4	43.00 2	6.35 0.0	2.7	0.0	0.00		9/9/1982		30.0 43.0	0 0	SAW SLOTS
Column C	5095						03N 0	9W 24 C	CBDD YES			0.00 2	6.29 0.0	10.9	0.0	0.00				0.0	0 0	
The content of the	****																	9/8/1982			0 0	
Column																					0 0	
Column																					4 0	
																		9/9/1982			4 0	
	****																				4 0	SAW SLUTS
Column	****																WEIGHT	7/24/1001		***	4 0	020 TRILOC SPN
Column																	WEIGHT				0 0	.020 TRILOC SIRIN
Column C																	LINDSAY				6 0	1/4X1.5 SLOTS
Column C		TAMIETTI MUDGE		112.6337 T	TRS-TWN	NAD27				WELL 1								1/1/1935			0 0	
Column		WOLD TERRY															OKEEFE				5 0 8-Jan	SLOTS
Column C	50375	MARSH WILSON J.	46.0072 -1	112.6292 T	TRS-TWN	NAD27	03N 0	8W 18 E	DDAA NO	WELL	3	30.00 1	4.00 0.0	100.0	0.0 0	0.00		1/1/1950	COMMERCIAL	0.0 0.0	0 0	
Company of the comp	50376	GARRYOWEN CORP. #1	46.0072 -1	112.6330 T	rrs-twn	NAD27	03N 0	8W 18 E	DDBB NO	WELL	0				0.0	0.00	UNKNOWN	1/1/1937	DOMESTIC	0.0	0 0	
Column																					0 0	
Company of the property 150 15																					0 0	
Company Comp	*****																			0.0	0 0	
Column C																		., .,			0 0	
Control Cont																					0 0	1
Section Control of the Control o																					0 0	TORCU CUTO
March Marc	*****														Z.U U			., .,			6 0	
State Stat															0.0						4 0	
No.																0.00		., .,			6 0	
Control Cont																					6 0	
	20070																				6 0	
Control Cont	*****														2.0 0		OKEEFE				6 0	
Proceedings	50390	CROWLEY DENNIS	45.9935 -1	112.6374 T	FRS-TWN	NAD27	03N 0	8W 19 E	DBCC NO	WELL 1	110ALVM 1	122.00 9	5.00 100.0	25.0 BAILER	2.0 0	0.00	OKEEFE	1/1/1972	DOMESTIC	118.0 122.0	6 0	TORCH CUTS
	50391	CROWLEY JOHN	45.9935 -1	112.6361 T	rs-twn	NAD27	03N 0	8W 19 E	DBCD NO	WELL 1	110ALVM 1	138.00 1	00.00 115.0	25.0 BAILER	2.0 0	0.00	BARRUS	1/1/1972	DOMESTIC	133.0 138.0	6 0	TORCH CUTS
Control Cont	50392	BROCK BILL					03N 0	8W 19 E	DCBC NO	WELL 2	211PLNC 1	155.00 1	34.00 0.0		2.0 0	0.00	OKEEFE	1/1/1973		135.0 155.0	5 0	TORCH CUTS
Section Sect	50393	RICHENS V.					03N 0	8W 19 E	OCDD NO	WELL 1	110ALVM 1	150.00 1	36.00 0.0	25.0 PUMP	0.0	0.00	OKEEFE	1/1/1973		143.0 148.0	6 0	TORCH CUTS
																					0 0	
Second Process Seco																		., .,			0 0	
Section Sect																					0 0	
Part Part Color																					6 0	
MACHINE NAME MACH																					4 0	
																	OKEEFE				4 0	
																		17 17 1010			0 0	TORCH COTS
Column C																	OKEEEE				6 0 8-Jan	TORCH CUTS
																					0 0	
Mary	50487														2.0 0						0 0	SLOTS
	50488 21639	TINSLEY MAURICE	46.0144 -1	112.7130 T	FRS-TWN	NAD27	03N 0	9W 15 E	BCBC NO	WELL 1	120VLCC 6	60.00 2	5.00 0.0	30.0 BAILER	0.0	0.00	OKEEFE	1/1/1979	DOMESTIC	43.0 60.0	4 0	SAW SLOTS
Product Description Product Service Product Description Pr										WELL 1					2.0 0	0.00				60.0 65.0	9 0	SLOTS
																	OKEEFE				6 0	SLOTS
PATCH MARY																	D.4.D.D.U.O.				0 0	1/0V 1 OL OTO
Column C	*****		46.0102 -1															., .,			4 0	
Column C			40.0004 4		IRS-IWN												OKEEFE				0 0	TORCH CUTS
Sept. Sept	*****				TDC TWN									20.0						0.0	0 0	03 EACTORY SLT
Form			46.0124 -1	112.7243 T					SCD NO					0.0		0 00	OKEEEE	3/15/1085		10.0 20.0	4 0	
SAME		BMF * WELL GS-05	46.0124 -1 46.0132 -1	112.7243 T 112.7311 T	TRS-TWN	NAD27	03N 0	9W 16 E										-,,			4 0	
Column C	50496	BMF * WELL GS-05 BMF * WELL GS-06	46.0124 -1 46.0132 -1 46.0132 -1	112.7243 T 112.7311 T 112.7283 T	TRS-TWN TRS-TWN	NAD27 NAD27	03N 0	9W 16 E	BDC NO	WELL	3	31.00 8	3.20 0.0	12.0	0.0	0.00		3/15/1985	MONITORING	19.0 29.0	4 0 4 0 0 0	
ELEPHANE DAMAD	50496 50497 71120	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T	TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27	03N 0 03N 0	9W 16 E 9W 16 E 9W 16 C	BDC NO CAD NO	WELL	3 1	31.00 8 117.00 9	3.20 0.0 0.00 100.0	12.0 60.0	0.0 0 0.0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/1/1987	MONITORING DOMESTIC	19.0 29.0 97.0 117.0	4 0 4 0 0 0 4 0	.03 FACTORY SLT
HITSING MALACOSSISTO 46,000 127,273 TRETYM MOZ7 50N	50496 50497 71120 50498	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0064 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N	TRS-TWN TRS-TWN TRS-TWN NAV-GPS	NAD27 NAD27 NAD27 NAD27	03N 0 03N 0 03N 0 03N 0	9W 16 E 9W 16 E 9W 16 C 9W 16 C	BDC NO CAD NO DCDB YES	WELL WELL	3 1 124LDCK 1	31.00 8 117.00 9 124.00 5	3.20 0.0 00.00 100.0 55.00 0.0	12.0 60.0 15.0 BAILER	0.0 0 0.0 0 0.0 0	0 0.00 0 0.00 0 0.00	OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979	MONITORING DOMESTIC DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0	4	.03 FACTORY SLT
SCHIOSER RON	50496 50497 71120 50498 50499	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0064 -1 46.0066 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N 112.7213 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0 03N 0 03N 0	9W 16 E 9W 16 E 9W 16 C 9W 16 C 9W 16 E	BDC NO CAD NO CCDB YES CC NO	WELL WELL WELL 1	3 1 124LDCK 1 1	31.00 8 117.00 9 124.00 5 102.00 4	3.20 0.0 10.00 100.0 5.00 0.0 5.00 65.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL	0.0 0 0.0 0 0.0 0 5.0 0	0 0.00 0 0.00 0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE	3/15/1985 1/1/1987 1/1/1979 1/1/1980	MONITORING DOMESTIC DOMESTIC DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0	4 0 0 0 0 0 4 0 0 0 4 0	.03 FACTORY SLT SAW SLOTS
FALOWSKIWALE 5.9995 11.2701 MS-TVM NAD27 084 989 22 NO WELL 1.2700 000 0.0 25.0 0.0	50496 50497 71120 50498 50499 50500 50501	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW K/JACOBSEN D	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N 112.7213 T 112.7213 T 112.7213 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0 03N 0 03N 0 03N 0 03N 0	9W 16 E 9W 16 E 9W 16 C 9W 16 C 9W 16 C 9W 16 C 9W 16 C	BDC NO CAD NO DCDB YES DC NO DCC NO	WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0	3.20 0.0 10.00 100.0 15.00 0.0 15.00 65.0 12.00 148.0 1.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0	0.0 0 0.0 0 0.0 0 5.0 0 1.0 0 2.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	OKEEFE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1987 1/1/1989	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS
SUMERBOW CREEK: CERCLATS-01 46,0021 172,9919 TRS-TWN MAD27 639 809 8	50496 50497 71120 50498 50499 50500 50500 50502	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N 112.7213 T 112.7213 T 112.7213 T 112.7213 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0	9W 16 E 9W 16 C	BDC NO CAD NO CDDB YES DC NO DCC NO DC NO NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1 2 2	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0	3.20 0.0 10.00 100.0 35.00 0.0 15.00 65.0 12.00 148.0 1.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0	0.0 0 0.0 0 0.0 0 5.0 0 1.0 0 2.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1987 1/1/1989 1/1/1963	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0	6 0 0 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS
SECOND SELVERBOW CREEK** CERCLATS-02 46.0021 -112.0010 TRS*TWN NAD27 03N 09W 22 AAD NO WELL 7.60 7.00 0.0	50496 50497 71120 50498 50499 50500 50501 50501 50502 50503	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON	46.0124 -1 46.0132 -1 46.0132 -1 46.0032 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N 112.7213 T 112.7213 T 112.7213 T 112.7233 T 112.7233 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0	9W 16 E 9W 16 E 9W 16 C	BDC NO DCDB YES DC NO DC NO DC NO NO BDDC YES	WELL WELL WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1 2 2 124LDCK 1	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0	3.20 0.0 10.00 100.0 35.00 0.0 15.00 65.0 12.00 148.0 1.00 0.0 1.00 0.0 1.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER	0.0 0 0.0 0 5.0 0 1.0 0 2.0 0 0.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1987 1/1/1989 1/1/1963 1/1/1984	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0	6 0 0 0 4 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
SILVERBOW CREEK** CERCLA TS-04	50496 50497 71120 50498 50499 50500 50501 50502 50503 50503	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW K/JACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0064 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N 112.7213 T 112.7213 T 112.7213 T 112.7213 T 112.7213 T 112.7213 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0	9W 16 E 9W 16 E 9W 16 C 9W 21 C 9W 22 E	BDC NO DCB YES DC NO DC NO DC NO DC NO DC NO NO BDDC YES NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1 2 2 124LDCK 1	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1	3.20 0.0 10.00 100.0 15.00 0.0 15.00 65.0 12.00 148.0 1.00 0.0 1.00 0.0 1.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0	0.0 0 0.0 0 0.0 0 5.0 0 1.0 0 0.0 0 0.0 0 0.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE OKEEFE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1987 1/1/1989 1/1/1963 1/1/1984 1/1/1986	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0	6 0 0 0 4 0 4 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
SIVERBOW CREEK* CERCLA TS-0.6 46.0021 112,8919 TRS-TWN NAD27 03N 09W 22 AAD NO WELL 27,00 3.56 1.0 0.0	50496 50497 71120 50498 50499 50500 50501 50502 50503 50503 50504 50505	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.9975 -1 46.0021 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N 112.7213 T 112.7213 T 112.7213 T 112.723 T 112.723 T 112.7209 N 112.7018 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0	9W 16 E 9W 16 C 9W 20 C 9W 21 C 9W 22 E 9W 22 A	BDC NO CAD NO CODB YES DC NO DC NO DC NO DC NO DC NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1 2 124LDCK 1 1 124LDCK 1	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 127.00 0 26.50 9	3.20 0.0 0.00 100.0 55.00 0.0 55.00 65.0 22.00 148.0 0.00 0.0 0.00 0.0 0.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0	0.0 0 0.0 0 0.0 0 5.0 0 11.0 0 2.0 0 0.0 0 0.0 0 0.0 0	0 0.00 0 0.00	OKEEFE DVNAMITE OKEEFE OKEEFE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1987 1/1/1987 1/1/1989 1/1/1963 1/1/1984 1/1/1986 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0	6 0 0 0 4 0 4 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS .03 FACTORY SLT
SILVERBOW CREEK* CERCLATS-06 46,0021 112,0919 TRS-TYM NAD27 ON ON WELL 27,00 9.8 O 10.0 O.0	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02	46.0124 -1 46.0132 -1 46.0032 -1 46.0064 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 T 1112.7311 T 1112.7283 T 1112.7255 T 1112.7228 N 1112.7213 T 1112.7213 T 1112.7213 T 1112.7213 T 1112.7213 T 1112.7069 N 1112.6919 T 1112.6919 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0	9W 16 E 9W 16 E 9W 16 C 9W 21 9W 22 E 9W 22 9W 22 A	BDC NO CAD NO CAD NO COCDB YES COC NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1 1 2 2 124LDCK 1 1 1 2 7	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 127.00 0 26.50 9 7.60 7	3.20 0.0 10.00 100.0 15.00 0.0 15.00 65.0 12.00 148.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0 1.10 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0	0.0 0 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE OYNAMITE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1987 1/1/1987 1/1/1987 1/1/1984 1/1/1984 1/1/1986 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNIUSED MRRIGATION MONITORING MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 16.0 26.0	6 0 0 0 4 0 4 0	SAW SLOTS O3 FACTORY SLT O3 FACTORY SLT
SILVERBOW CREEK * CERCLA TS-00	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW K/JACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03	46.0124 -1 46.0132 -1 46.0094 -1 46.0064 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9975 -1 46.0021 -1 46.0021 -1	112.7243 T 112.7311 T 112.7283 T 112.7255 T 112.7228 N 112.7213 T 112.7213 T 112.7213 T 112.7213 T 112.7233 T 112.7069 N 112.7018 T 112.6919 T 112.6919 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0	9W 16 E 9W 16 C 9W 22 E 9W 22 A 9W 22 A	BDC NO CAD NO CDB YES DC NO DC NO DC NO DC NO BDC NO ADD YES NO AAD NO AAD NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1 2 124LDCK 1 1 2 7 7 2	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 127.00 0 26.50 9 7.60 7	3.20 0.0 10.00 100.0 15.00 0.0 15.00 65.0 12.00 148.0 10.00 0.0 10.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1987 1/1/1987 1/1/1987 1/1/1984 1/1/1984 1/1/1986 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING MONITORING MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 10.0 100.0 155.0 175.0 155.0 100.0 155.0 100.0 155.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5	6 0 0 0 4 0 4 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS .03 FACTORY SLT .03 FACTORY SLT .03 FACTORY SLT
SILVERBOW CREEK* CERCLATS-07	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50505 50506 50507 50508	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-04	46.0124 -1 46.0132 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1	1112.7243 T 1112.7311 T 1112.7283 T 1112.7255 T 1112.7258 N 112.7213 T 112.7213 T 112.7213 T 112.7233 T 112.7038 T 112.7018 T 112.6919 T 112.6919 T 112.6919 T 112.6919 T	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 0 03N 0	9W 16 E 9W 16 C 9W 21 C 9W 22 E 9W 22 A 9W 22 A 9W 22 A	BDC NO CAD NO CAD NO COCDB YES CC NO CC NO CC NO CC NO CC NO AND AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1 124LDCK 1 1 1 2 2 2 124LDCK 1 1 2 2 7 7	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 127.00 0 26.50 9 7.60 7 27.00 9 27.00 9	.20 0.0 .000 100.0 .5.00 0.0 .5.00 65.0 .2.00 148.0 .00 0.0 .00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 5.0	0.0 0 0.0 0 0.0 0 5.0 0 1.0 0 2.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0	0 0.00 0 0.00	OKEEFE DYNAMITE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1979 1/1/1980 1/1/1987 1/1/1987 1/1/1989 1/1/1984 1/1/1986 3/13/1985 3/14/1985 3/14/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING MONITORING MONITORING MONITORING MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0	6 0 0 0 4 0 4 0	SAW SLOTS 0.03 FACTORY SLT 0.03 FACTORY SLT 0.03 FACTORY SLT 0.03 FACTORY SLT
SILVERBOW CREEK CERCLA TS-08	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50507 50508	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-05	46.0124 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.9021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1	1112.7243	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N	9W 16 E 9W 16 E 9W 16 E 10 E	BDC NO CAD NO CODB YES DC NO DC NO DC NO DC NO DC NO ADD NO ADD NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1124LDCK 1 122 124LDCK 1 124LDCK 1 122 222 222	81.00 8 117.00 9 124.00 5 102.00 4 175.00 9 200.00 0 155.00 1 127.00 0 26.50 9 7.60 7 7.60 7 27.00 9 27.00 9	.20 0.0 .000 100.0 .5.00 0.0 .5.00 65.0 .2.00 148.0 .00 0.0 .00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 10.0 10.0 10.0 10.0 10.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1980 1/1/1989 1/1/1989 1/1/1984 1/1/1986 3/13/1985 3/13/1985 3/14/1985 3/14/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC MONITORING MONITORING MONITORING MONITORING MONITORING MONITORING MONITORING MONITORING MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0	6 0 0 0 4 0 4 0	SAW SLOTS SAW SL
SILVERBOW GREEK 'CERCLATS-09 46.0021 112.6919 TRS-TWN NAD27 G3N G9W 22 AAD NO WELL 6.00 0.	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50506 50507 50508	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW K/JACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05	46.0124 -1 46.0132 -1 46.0032 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1	1112.7243 1 1112.7213 1 1112.7283 1 1112.7283 1 1112.7285 1 1112.7228 1 1112.7213 1 1112.7	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N C	9W 16 E 9W 16 E 9W 16 C 9W 21 C 9W 22 E 9W 22 A	BDC NO CAD NO CDB YES DC NO DC NO DC NO DC NO BDDC YES NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 1 1 2 2 1124LDCK 1 1 2 2 7 7 2 2 2 2	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 127.00 0 26.50 9 27.00 9 27.00 9 27.00 9 27.00 9 27.00 9	1.20 0.0 1.20 0.0 1.20 0.0 1.50 0 0.0 1.50 0 65.0 1.20 148.0 1.00 0.0 1.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 5.0 10.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0.0 0 0.0 0 5.0 0 1.0 0 1.0 0 0.0 0 0.	0 0.00 0 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OKEEFE OKEEFE DYNAMITE OKEEFE	3/15/1985 1/1/1987 1/1/1979 1/1/1980 1/1/1980 1/1/1987 1/1/1987 1/1/1983 1/1/1984 1/1/1986 3/13/1985 3/13/1985 3/14/1985 3/14/1985 3/14/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 100.0 100.0 155.0 100.0 155.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 16.0 26.0	6 0 0 0 4 0 4 0	SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS 0.3 FACTORY SLT
Solid SILVERBOW CREEK ' CERCLA TS-11	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50506 50508 50509 50511	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9981 -1 45.9981 -1 45.9975 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1	1112.7243 1 1 1112.7243 1 1112.7283 1 1112.7283 1 1112.7283 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7018 1 1112.7018 1 1112.6019 1 1112	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 C 9W 22 C	BDC NO CAD NO CAD NO CODB YES DC NO DC NO DC NO DC NO DC NO ADD NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	124LDCK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31.00 8 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 127.00 0 26.50 7 27.00 9 27.00 9 33.00 9	1.20 0.0 1.20 0.0 1.5.00 10.0 1.5.00 65.0 1.5.00 65.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE OKEEFE	3/15/1985 1/1/1987 1/1/1987 1/1/1980 1/1/1980 1/1/1980 1/1/1983 1/1/1983 1/1/1984 1/1/1986 3/13/1985 3/14/1985 3/14/1985 3/14/1985 3/15/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 16.0 26.0 2.0 7.0 2.0 7.0	6 0 0 0 4 0 4 0	SAW SLOTS 0.3 FACTORY SLT
SAVILLE DUANE 45.9993 112.6988 TRS-TWN NAD27 03N 09W 22 AC NO WELL 107.00 65.00 0.0 30.0 BAILER 0.0 0 0.00 OKEEFE 11/1988 DOMESTIC 80.0 80.0 80.0 60.0 6 0 TORCH CUTS 15.0518 MCLEOD JACK L. 45.9993 112.6988 TRS-TWN NAD27 03N 09W 22 AC NO WELL 107.00 67.00 8.AILER 1.5 0 0.00 OKEEFE 11/1988 DOMESTIC 0.0 0.	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50508 50509 50510 50511 50512 50513	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07	46.0124 -1 46.0132 -1 46.0034 -1 46.0064 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.9981 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1	1112.7243 1 1112.7243 1 1112.7281 1 1112.7283 1 1112.7283 1 1112.7213 7 112.7213 7 112.	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 E 9W 16 C 9W 21 C 9W 22 E 9W 22 A	BDC	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 12 12 124LDCK 1 1 12 2 2 2 2 2 2 2 2 2 2 3 7 7	81.00 88 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 127.00 9 27.00 9	1.20 0.0 1.00 100.0 1.00 100.0 1.50 0 0.0 1.50 0 100.0 1.50 0 148.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0 1.30 0.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0.0 0 0 0.0 0 0 0 0 0 0 0 0 0	0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OKEEFE OKEEFE OYNAMITE OKEEFE	3/15/1985 1/1/1987 1/1/1987 1/1/1987 1/1/1989 1/1/1989 1/1/1984 1/1/1986 3/13/1985 3/13/1985 3/15/1985 3/15/1985 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 175.0 175.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 6.5	6 0 0 0 4 0 4 0	SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS 0.3 FACTORY SLT 1.03 FACTORY SLT
50517 28245 DOBB DAVIDE.	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50506 50508 50509 50511 50512 50513 50514	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-08 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10	46.0124 -1 46.0132 -1 46.0132 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.9975 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1 46.0021 -1	1112.7243 1 1112.7243 1 1112.7283 1 1112.7283 1 1112.7285 1 1112.7285 1 1112.728 N 1112.7213 1 1112.72	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 C 9W 22 C 9W 22 A	BDC NO CAD NO CAD NO CODB YES DC NO DC NO DC NO DC NO DC NO DC NO AND AND NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 12 12 124LDCK 1 1 12 124LDCK 1 1 1 2 2 7 7 2 2 2 2 8 8 7 7	81.00 8 117.00 9 117.00 9 117.00 9 1024.00 5 102.00 4 175.00 9 225.00 0 1055.00 1 127.00 0 126.50 9 175.00 9	1.20 0.0 1.00 100.0 1.55.00 0.0 1.55.00 65.0 1.55.00 148.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0 1.11 0 0.0 1.33 0.0 1.67 0.0 1.55 0 15.0 1.667 0.0 1.667 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE DYNAMITE OKEEFE	3/15/1985 1/1/1987 1/1/1987 1/1/1980 1/1/1980 1/1/1980 1/1/1980 1/1/1983 1/1/1984 1/1/1985 3/13/1985 3/14/1985 3/14/1985 3/15/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 16.0 26.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5	6 0 0 0 4 0 4 0	SAW SLOTS .03 FACTORY SLT .04 FACTORY SLT .05 FACTORY SLT .05 FACTORY SLT .06 FACTORY SLT .07 FACTORY SLT .08 FACTORY SLT .09 FACT
50518 MCLEOD JACK L. 45,9935 112,6933 TRS-TWN NAD27 03N 09W 22 AD NO WELL 47,000 27,000 30,000 25,000 BAILER 1,5 0 0 0,000 DYKEMTE 1/1/1985 DOMESTIC 0,000	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50509 50510 50511 50512 50513 50514 50515	BMF * WELL GS-05 BMF * WELL GS-06 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11	46.0124 -1 46.0132 -1 46.0032 -1 46.0094 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.9981 -1 46.0021 -1	1112.7243 1 112.7311 1 112.7313 1 1112.7313 1 1112.7313 1 1112.7225 1 1112.7221 1 1112.7221 1 1112.7213 1 1112.721	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 E 9W 16 C 9W 22 C 9W 22 A	BDC NO DCDB YES DC NO DCD NO DC NO DC NO DC NO DC NO DC NO DC NO ADD NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 1 2 2 124LDCK 1 1 2 2 7 7 2 2 2 2 8 6 7 7 6	81.00 8 8117.00 9 117.00 9 117.00 9 102.00 4 175.00 9 225.00 0 225.00 0 200.00 0 155.00 1 127.00 0 26.50 9 27.00 9 27.00 9 27.00 9 27.00 9 27.00 9 3.50 0 0.00 0 0.	1.20 0.0 1.2	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/1/1987 1/1/1987 1/1/1980 1/1/1980 1/1/1980 1/1/1989 1/1/1986 3/13/1985 3/13/1985 3/14/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 100.0 155.0 100.0 155.0 100.0 155.0 100.0 155.0 100.0 155.0 100.0 155.0 100.0 155.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5	6 0 0 0 4 0 4 0	SAW SLOTS 1.03 FACTORY SLT 1.04 FACTORY SLT 1.05 FACTORY SLT 1
	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50506 50506 50506 50508 50509 50510 50511 50512 50513 50514 50515 50515 50516	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE	46.0124 -1 46.0132 -1 46.0094 -1 46.0064 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.0021 -1 46.0021 -1	1112.7243 1 1112.7311 7 1112.7311 7 1112.7313 7 1112.7228 N 1112.7228 N 1112.7228 N 1112.7213 7 112.7213 7	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 C 9W 22 C 9W 22 P	BDC	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 12 2 2 124LDCK 1 1 2 2 2 2 2 2 2 2 8 7 7 7 9 9	81.00 8 117.00 9 117.00 9 124.00 5 102.00 4 175.00 9 225.00 0 155.00 1 127.00 9 7.60 7 727.00 9 27.00 9 27.00 9 27.00 9 27.00 9 27.00 9 27.00 9 27.00 9 27.00 9	1.20 0.0 1.20 0.0 1.20 0.0 1.20 1.20 1.5.00 1.20 1.5.00 65.0 1.2.00 148.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0 1.30 0.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 15.0	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0.0 0 0 0.0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE OYNAMITE OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1981 1/17/1984 1/17/1984 1/17/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 100.0 165.0 175.0 175.0 175.0 187.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS 0.3 FACTORY SLT 1.03 FACTORY SLT 1.04 FACTORY SLT 1.05 FACTOR
50521 KEYSER DEAN 45.9915 112.7099 TRS-TWN NAD27 33N 09W 22 CB NO WELL 108.00 80.00 10.00 30.00 BAILER 0.0 0 0.00	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50506 50506 50507 50508 50509 50510 50511 50512 50513 50514 50515 50516 50515 50516 50517 28245	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E.	46.0124 -1 46.0132 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 1 1112.7243 1 1112.7283 1 1112.7283 1 1112.7285 1 1112.728 N 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7213 1 1112.7233 1 1112.7233 1 1112.7233 1 1112.7233 1 1112.7233 1 1112.7239 1 1112.6919 1 112.6919 1 1 112.6919 1 1 112.6919 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 C 9W 22 C 9W 22 A	BDC NO CAD NO CODB YES DC NO DC NO DC NO DC NO DC NO DC NO AD NO ADD NO AAD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 124LDCK 1 1 2 2 124LDCK 1 1 2 2 2 2 2 2 2 8 8 7 7 7 9 9	81.00 8 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 175.00 9 225.00 0 200.00 0 200.00 0 26.50 9 27.00	1.20 0.0 1.2	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 JAIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/1/1987 1/1/1987 1/1/1987 1/1/1980 1/1/1980 1/1/1980 1/1/1983 1/1/1984 1/1/1983 3/13/1985 3/14/1985 3/14/1985 3/15/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING	19.0 29.0 97.0 11.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0	6 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS 0.3 FACTORY SLT 1.03 FACTORY SLT 1.04 FACTORY SLT 1.05 FACTOR
50522 68027 DARLOW MARK 45.9917 112.7091 TRS-TWN NAD27 03N 09W 22 CC NO WELL 20.00 80.00 15.0 AIR 2.0 0 0 0.00 LINDSAY 1/1/1988 DOMESTIC 140.0 200.0 4 0 1/4X4 SLOTS 1/4 5.00	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50507 50508 50509 50511 50511 50512 50513 50514 50515 50516 50516 50516 50516 50517 28245	BMF * WELL GS-06 BMF * WELL GS-06 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L.	46.0124 -1 46.0132 -1 46.0031 -1 46.0094 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 T 1112.7313 T 1112.7313 T 1112.7313 T 1112.7255 T 1112.7228 N 1112.7228 N 1112.7213 T 1112.7	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 E 9W 16 C 9W 21 C 9W 22 A	BDC	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 1 2 2 124LDCK 1 1 2 2 2 2 2 2 2 2 2 2 8 7 7 9 9	81.00 8 117.00 9 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 175.00 9 225.00 0 200.00 0 155.00 1 157.00 9 27.00 9 27.00 9 27.00 9 3.50 0 3.50 0 0.00	1.20 0.0 1.20 0.0 1.20 0.0 1.20 1.20 1.55.00 0.0 1.55.00 1.20 1.55.00 1.20 1.20 1.48.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0 1.10 0.0 1.55 15.0 1.50 15.0 1.75 0.0 1.75 0.0 1.00	12.0 60.0 60.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1984 1/17/1984 1/17/1985 3/14/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 175.0 100.0 155.0 175.0 175.0 100.0 155.0 100.0 155.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0	6 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS .03 FACTORY SLT LYSIMETER LYSIMETER LYSIMETER LYSIMETER TORCH CUTS SAW SLOTS
50523 19457 SEVORES JOHN 45.9913 112.7051 TRS-TWN NAD27 03N 09W 22 CDCA NO WELL 211PLNC 125.00 0	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50506 50506 50506 50508 50509 50510 50511 50512 50513 50514 50513 50514 50515 50516 50517 28245 50518	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-04 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN	46.0124 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.9981 -1 46.0021 -1	111.7.243 1 112.731 1 112.731 1 112.733 1 112.733 1 112.725	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N 0 03N	9W 16 E 9W 16 C 9W 22 C	BDC	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 12 124LDCK 1 1 12 2 2 2 2 2 2 2 2 8 7 7 7 9 9 9 9	81.00 8 81.00 8 81.00 8 81.00 8 81.00 8 81.00 9 81.00	.20 0.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 15.00 65.0 12.00 148.0 100 0.0 100 0.0 100 0.0 100 0.0 1.10 0.0 1.10 0.0 1.50 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	12.0 60.0 60.0 60.0 60.0 60.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1984 1/17/1984 1/17/1984 3/13/1985 3/13/1985 3/14/1985 3/14/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING DOMESTIC UNKNOWN	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 100.0 165.0 125.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS .03 FACTORY SLT .U3 FACTORY SLT .U3 FACTORY SLT .U3 FACTORY SLT .U5 SACTORY SLT .U5 SACT
50524 EARHART JERRY 45.9973 .112.6802 TRS-TWN NAD27 03N 09W 23 NO WELL 88.00 29.00 0.0 60.0 0.0 0.0 0.00	50496 50497 71120 50499 50499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50509 50510 50511 50512 50513 50514 50515 50516 50516 50517 28245 50518 50518 50518	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN	46.0124 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 1 112.7243 1 112.7243 1 112.7283 1 112.7285 1 112.7285 1 112.7228 1 112.7213 1	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 C 9W 21 C 9W 22 C 6W 22 C 9W 22 C 6W 22	BDC NO CAD NO CODB YES COC NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 3 124LDCK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	81.00 8 8 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 1175.00 9 1225.00 0 102.00 0 102.00 10 1175.00 9 127.00	1.20 0.0 1.2	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0.0 0 0.0 0 0.0 0 5.0 0 0.0 0 5.0 0 0.0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1980 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC MONITORING MONI	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 1100.0 155.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0	6 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS SACTORY SLT O3 FACTORY SLT O3 FACTORY SLT O3 FACTORY SLT LO3 FACTORY SLT LYSIMETER LYSIMETER LYSIMETER LYSIMETER LYSIMETER LYSIMETER LYSIMETER SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS
50526 BUTTE-SILVER BOW (I) 46.0014 -112.6878 TRS-TWN NAD27 03N 09W 23 BBDC NO WELL 63.00 0.00 0.0 0.00	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50507 50508 50507 50508 50501 50511 50511 50512 50513 50514 50515 50516 50516 50516 50516 50517 28245 50518 50518 50520 50521	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK	46.0124 -1 46.0132 -1 46.0031 -1 46.0064 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 1112.7313 1112.7313 1112.7313 1112.7255 1112.7255 1112.7255 1112.7255 1112.7213 1112.6219 1112.6	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 E 9W 16 C 9W 21 C 9W 22 A	BDC	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 1 2 2 124LDCK 1 1 2 2 2 2 2 2 2 2 2 8 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	81.00 8 81.100 8 81.100 8 81.17.00 9 81.17.00 9 81.17.00 9 81.00 10.00 1	1.20 0.0 1.20 0.0 1.20 0.0 1.20 1.20 0.0 1.55.00 0.0 1.55.00 0.0 1.55.00 0.0 1.50.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0 1.10 0.0 1.50 15.0 1.50 15.0 1.50 15.0 1.50 0.0 1.75 0.0 1.50 0.0 1.75 0.0 1.50 0.0 1.75 0.0 1	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1984 1/17/1984 1/17/1985 3/13/1985 3/13/1985 3/14/1985 3/14/1985 3/14/1985 3/14/1985 3/14/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 175.0 100.0 155.0 177.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS SACTORY SLT SAM SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
50527 W049913-00 RHODIA INC "WELL 1A" 45.9944 .112.6732 TRS-TWN NAD27 03N 09W 23 DAC YES WELL 120SDMS 275.00 39.00 0.0 600.0 AIR/PUMP 32.0 0 0 0.00 LINDSAY 1/16/1990 INDUSTRIAL 136.0 206.0 12 0 STAINLESS STEEL SCI 50529 7055 RAUGH WILLIAM 45.9948 .112.6950 TRS-TWN NAD27 03N 09W 23 CACB NO WELL 49.00 26.00 0.0 45.0 BAILER 0.0 0 0.00 OKEFE 1/1/1975 DOMESTIC 34.0 39.0 6 0 SCI	50496 50497 71120 50499 50499 50500 50501 50502 50503 50504 50506 50506 50506 50508 50509 50510 50511 50512 50513 50514 50515 50516 50516 50517 28245 50518 50518 50521 50522 50521 50522 50521 50522 50521 50523 19457	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN	46.0124 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 46.0066 -1 46.0061 -1 46.0021 -1	111.7.243	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N 0 03N	9W 16 E 9W 16 C 9W 22 C 9W 22 C 9W 22 A	BDC	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 12 122 124LDCK 1 1 12 2 2 2 2 2 2 8 8 7 7 9 9 9 9 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	81.00 8 81.00 8 81.00 8 81.00 8 81.17.00 9 81.17.00 9 81.17.00 9 81.00 102.00 4 81.00 102.00 4 81.00 102.00 9 81.00 102.00 9 827.	.20 0.0 .20 0.0 .20 100.0 .20 100.0 .5.500 0.0 .5.500 65.0 .2.00 148.0 .00 0.0 .00 0.0 .00 0.0 .00 0.0 .10 0.0	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE OYNAMITE OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1981 1/17/1983 1/17/1984 1/17/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 1/17/1980 1/17/1980 1/17/1983 1/17/1983	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC DOMESTIC DOMESTIC DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 107.0 0.0 0.0 80.0 107.0 0.0 108.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS SACTORY SLT SAM SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
50529 7055 RAUGH WILLIAM 45.9948 .112.6850 TRS-TWN NAD27 03N 09W 23 CABB NO WELL 49.00 26.00 0.0 45.0 BAILER 0.0 0 0 0.00 OKEEFE 11/1/1975 DOMESTIC 34.0 39.0 6 0 SLOTS 50530 NORTHERN PACIFICE 45.9950 .112.6930 TRS-TWN NAD27 03N 09W 23 CBBC NO WELL 120SDMS 59.00 14.00 0.0 10.0 0 0.00 NORTHERN PACIFICE 50.0 50.0 14.00 0.0 10.0 NORTHERN PACIFICE 50.0 14.00 0.0 NORTHERN PACIFICE 50.0 NORT	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50509 50510 50511 50512 50513 50514 50515 50516 50516 50517 50518 50516 50518 50520 50518 50521 50518 50521 50521 50521 50521 50521 50521 50521 50521 50521 50522 50523 19457	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY	46.0124 -1 46.0132 -1 46.0032 -1 46.0094 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 T 1112.7313 T 1112.7313 T 1112.7313 T 1112.7255 T 1112.7255 T 1112.7213 T 112.7213 T 112.	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N	9W 16 E 9W 16 E 9W 16 E 10 S 16 E 10	BDC NO CAD NO CDB YES DC NO DC	WELL WELL WELL WELL WELL WELL WELL WELL	3 3 1124LDCK 1 1 1 1 2 2 124LDCK 1 1 2 2 2 2 2 2 2 8 8 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	81.00 8 8 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 1175.00 9 1225.00 0 102.00 0 102.00 10 1175.00 9 127.00	1.20 0.0 1.2	12.0 60.0 15.0 BAILER 25.0 PUMP/BAIL 50.0 AIR 9.0 200.0 10.0 BAILER 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE OYNAMITE OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1980 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNKNOWN	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 150.0 150.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0 80.0 127.0 0.0 0.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS SACTORY SLT SAM SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
50530 NORTHERN PACIFIC RR 45.9958 -112.6905 TRS-TWN NAD27 03N 09W 23 CBBC NO WELL 120SDMS 59.00 14.00 0.0 10.0 0 0.00 0 10.00 0 0.00 11/1/1955 DOMESTIC 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50496 50497 71120 50499 70499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50508 50501 50511 50511 50512 50513 50514 50515 50516 50516 50517 28245 50520 50522 68027 50523 19457 50524 50524	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBD DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY BUTTE-SILVER BOW (I)	46.0124 -1 46.0132 -1 46.0031 -1 46.0064 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 1112.7313 1112.7313 1112.7313 1112.7255 1112.7255 1112.7255 1112.7255 1112.7213 1112.7223 1112.7233 1112.7234 1112.7233 1112.7234 1112.7233 1112.7234 1112.7233 1112.7234 1112.7235 1112.7	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 0 03N	9W 16 E 9W 16 C 9W 22 C 9W 22 P	BDC NO DAD NO DCDB YES DC NO DCD NO DC NO DC NO DC NO DC NO DC NO DC NO AAD NO AC NO AC NO AC NO CC NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 122 2 124LDCK 1 1 2 2 2 2 2 2 2 2 2 2 2 8 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	81.00 8 117.00 9 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 175.00 9 200.00 0 165.00 1 127.00 0 127.00 9 175.00 9 175.00 9 177.	1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.20 1.48.0 1.20 0.0	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/15/1985 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1984 1/17/1984 1/17/1985 3/13/1985 3/13/1985 3/14/1985 3/14/1985 3/14/1985 3/15/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983	MONITORING DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC DOMESTIC DOMESTIC UNKNOWN DOMESTIC DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN DOMESTIC DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0 80.0 120.0 90.0 140.0 200.0 140.0 200.0 105.0 125.0 0.0 0.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS SACTORY SLT .03 FACTORY SLT .03 FACTORY SLT .03 FACTORY SLT LYSIMETER LYSIMETER LYSIMETER LYSIMETER TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
50532 W049913-00 RHODIA INC * WELL 3 45.9940 -112.6739 TRS-TWN NAD27 03N 09W 23 DACC YES WELL 120SDMS 250.00 53.00 71.0 550.0 PUMP 0.0 0 0 0.00 PRICE AND LIN 3/1/1951 INDUSTRIAL 123.0 128.0 10 0 1/4 IN SLOTS 50535 RHONE-POULENC CHEMICALS * WELL 2 45.9901 -112.6711 TRS-TWN NAD27 03N 09W 23 DDDC YES WELL 120SDMS 26.00 33.00 47.0 500.0 PRICE & LINDS 1/1/1951 INDUSTRIAL 120.0 126.0 10 0 4-Jan SLOTS 50536 RHONE-POULENC CHEMICALS * WELL 2 45.9901 +112.6711 TRS-TWN NAD27 03N 09W 23 DDDC YES WELL 120SDMS 250.00 10.0 0 0.00 PRICE & LINDS 1/1/1951 INDUSTRIAL 120.0 257.0 10 0 4-Jan SLOTS 50538 BUTTE-SILVERBOW METRO SEWER SLUDGE WELL-G 45.9955 -112.6733 UNKNOWN NAD27 03N 09W 24 DBDC YES WELL 120SDMS 250.00 35.00 12.0 VOLUMETRO.0 0 0 0.00 ORFICE & MONITORING 38.0 53.0 4 0 SAW SLOTS	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50508 50509 50510 50511 50512 50513 50514 50515 50516 50517 28245 50518 50520 50521 50521 50521 50522 50521 50523 50524 50524 50524 50524 50524 50524 50524 50524 50524 50524 50527 50524 50524 50527	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY BUTTE-SILVER BOW (I) RHODIA INC *WELL 1A	46.0124 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 46.0066 -1 46.0061 -1 46.0021 -1	111.7.243	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27	03N 0 0 03N 0 03N 0 03N 0 03N 0 03N 0 03N 0 0 03N 0 0 03N 0 0 03N 0 0 0 03N 0 0 0 03N 0 0 0 0 0 0 0 0 0	9W 16 E 9W 16 C 9W 22 C 9W 22 C 9W 22 A	BDC NO CAD NO CAD NO CODB YES COC NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 1124LDCK 1 1 12 12 124LDCK 1 1 12 12 124LDCK 1 1 1 1 1 2 2 12 12 12 12 12 12 12 12 1	81.00 8 81.100 8 81.17.00 9 81.17.00 9 81.17.00 9 81.17.00 9 81.00 100.00 4 81.00 100.	.20 0.0 .20 0.0 .20 0.0 .20 100.0 .20 100.0 .55.00 0.0 .55.00 65.0 .20 148.0 .00 0.0 .00 0.0 .00 0.0 .00 0.0 .10 0.0 .	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1981 1/17/1983 1/17/1984 1/17/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1983 1/17/1984	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNKNOWN DOMESTIC DOMESTIC UNKNOWN DOMESTIC DOMESTIC DOMESTIC UNKNOWN DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 16.0 26.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0 80.0 107.0 0.0 0.0 80.0 108.0 140.0 200.0 105.0 125.0 0.0 0.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS OF ACTORY SLT USIMETER LYSIMETER LYSIMETER LYSIMETER LYSIMETER TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
50535 RHONE-POULENC CHEMICALS * WELL 2 45.9901 -112.6711 TRS-TWN NAD27 03N 09W 23 DDDC YES WELL 120SDMS 226.00 33.00 47.0 500.0 0 0.00 PRICE & LINDS 1/1/1951 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 RHONE-POULENC CHEMICALS * WELL 245.9901 -112.6711 TRS-TWN NAD27 03N 09W 23 DDDC YES WELL 120SDMS 257.00 4.00 0 0.00 0 0.00 PRICE & LINDS 1/1/1951 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 BUTTE-SILVERSOW METRO SEWER SLUDGE WELL-9 45.9905 -112.6733 UNKNOWN NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 4-Jan SLOTS 50536 NEW NAD27 03N 09W 24 DECE YES WELL 120SDMS 53.00 35.02 0.0 12.0 VOLUMETR(0.0 0 0 0.00 NEFFE 8/30/1971 INDUSTRIAL 201.0 226.0 10 0 0.0 126.	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50509 50510 50511 50512 50513 50514 50515 50516 50516 50517 28245 50518 50520 50521 50521 50521 50521 50518 50520 50520 50520 50522 50523 19457 50524 50526 50526 50527 W049913-00	BMF * WELL GS-06 BMF * WELL GS-06 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY BUTTE-SILVER BOW (I) RHOUGH INC * WELL 1A RAUGH WILLIAM	46.0124 -1 46.0132 -1 46.0094 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 1112.7313 1112.7313 1112.7313 1112.7325 1112.7225 1112.7223 1112.7223 1112.7223 1112.7223 1112.7213 1112.723	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27	03N	9W 16 E 9W 16 IC 9W 21 9W 22 9W 22 P 9W	BDC NO DAD NO DCDB YES DC NO DCD NO DC NO DCD NO	WELL WELL WELL WELL WELL WELL WELL WELL	3 3 124LDCK 1 1 1 2 2 124LDCK 1 1 2 2 2 2 2 2 8 8 7 7 7 8 9 9 9 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	81.00 8 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 117.00 9 225.00 0 200.00 0 127.00 9 225.00 0 200.00 0 127.00 9 27.00 9 27.00 9 27.00 9 27.00 0 3.50 0 3	1.20 0.0 1.2	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1980 3/13/1985 3/13/1985 3/14/1985 3/14/1985 3/14/1985 3/14/1985 3/14/1985 3/14/1985 3/14/1985 3/13/1985	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC DOMESTIC DOMESTIC UNKNOWN MONITORING MONITORING DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING MO	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 125.0 0.0 0.0 155.0 175.0 0.0 0.0 100.0 155.0 87.0 127.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 3.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 127.0 0.0 0.0 80.0 127.0 0.0 0.0 80.0 120.0 90.0 108.0 140.0 200.0 105.0 125.0 0.0 0.0 40.0 60.0 136.0 206.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS OF ACTORY SLT USIMETER LYSIMETER LYSIMETER LYSIMETER LYSIMETER TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS
50536 RHONE-POULENC CHEMICALS * WELL 2A 45.9901 -112.6711 TRS-TWN NAD27 03N 09W 23 DDDC YES WELL 120SDMS 257.00 44.00 126.0 500.0 PUMP 21.0 0 0 0.00 OKEEFE 8/30/1971 INDUSTRIAL 200.0 257.0 8 0 TORCH CUTS 50538 BUTTE-SILVERBOW METRO SEWER SLUDGE WELL-G 45.9955 -112.6733 UNKNOWN NAD27 03N 09W 24 CBCB YES WELL 120SDMS 53.00 35.82 0.0 12.0 VOLUMETR 0.0 0 0 0.00 1/1/1983 MONITORING 38.0 53.0 4 0 SAW SLOTS	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50509 50510 50512 50513 50514 50515 50516 50516 50517 28245 50518 50520 50520 50521 50521 50521 50521 50521 50521 50521 50521 50520 50520 50520 50521 50522 50524 50524 50526 50527 W049913-00 50529 7055	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBD DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY BUTTE-SILVER BOW (I) RHODIA INC *WELL 1A RAUGH WILLIAM NORTHERN PACIFIC RR	46.0124 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9975 -1 45.9981 -1 45.9075 -1 46.0021 -1	111.7243 112.7243 112.7311 112.7283 112.7311 112.7285 112.7285 112.728 112.7213 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6221 112.6221 112.6222 1	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 0 0 0 0 0 0 0 0 0	9W 16 E 9W 16	BDC NO CAD NO CDB YES DC NO DC YES DC NO DC YES DC NO DC YES DC NO DC YES DC NO DC YES DC NO DC YES DC YES DC NO DC YES DC YES DC YES DC NO DC YES DC YES DC YES DC YES DC NO DC YES DC Y	WELL WELL WELL WELL WELL WELL WELL WELL	3 124LDCK 1 1 124LDCK 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	81.00 8 81.17.00 9 117.00 9 117.00 9 117.00 9 102.00 4 175.00 9 200.00 0 20	1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.20 1.48.0 1.20 0.0	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1984 1/17/1984 1/17/1984 1/17/1985 3/13/1985 3/13/1985 3/13/1985 3/14/1985 3/14/1985 3/14/1985 3/15/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 1/17/1983	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING DOMESTIC DOMESTIC UNKNOWN MONITORING INDUSTRIAL DOMESTIC DOMESTIC UNKNOWN MONITORING INDUSTRIAL DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 175.0 100.0 155.0 175.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 16.0 26.0 0.0 3.3 5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 90.0 80.0 107.0 0.0 0.0 80.0 120.0 90.0 108.0 140.0 20.0 105.0 125.0 0.0 0.0 136.0 26.0 136.0 26.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAW SLOTS SACTORY SLT O3 FACTORY SLT O3 FACTORY SLT LY3 FACTORY SLT LYSIMETER LYSIMETER LYSIMETER LYSIMETER TORCH CUTS SAW SLOTS
	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50507 50508 50510 50511 50512 50513 50514 50515 50515 50516 50516 50516 50517 28245 50520 50520 50520 50521 50521 50521 50521 50521 50521 50520 50520 50520 50520 50520 50521 50521 50521 50521 50521 50522 50523 19457 50524 50526 50527 W049913-00	BMF * WELL GS-06 BMF * WELL GS-06 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-08 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY BUTTE-SILVER BOW (I) RHODIA INC * WELL 1A RAUGH WILLIAM NORTHERN PACIFIC RR RHODIA INC * WELL 2 RHONE-POULENC CHEMICALS * WELL 2	46.0124 -1 46.0132 -1 46.0031 -1 46.0064 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27	03N	9W 16 E 9W 16 I 6	BDC NO DAD NO DCDB YES DC NO D	WELL WELL WELL WELL WELL WELL WELL WELL	3 3 124LDCK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	81.00 8 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 117.00 9 225.00 0 200.00 0 165.00 1 127.00 0 26.50 9 27.00 9 27.00 9 3.00 0 3.50 0	1.20 0.0 1.2	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1980 3/13/1985 3/14/1988	MONITORING DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 16.0 26.0 16.0 26.0 16.0 26.0 16.0 26.0 16.0 26.0 16.0 26.0 16.0 26.0 16.0 26.0 16.0 26.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 175.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.03 FACTORY SLT SAW SLOTS .03 FACTORY SLT .05 FACTORY SLT .05 FACTORY SLT .07 FACTORY SLT .08 FACTORY SLT .09 FACTORY SL
	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50506 50507 50508 50501 50511 50512 50513 50514 50515 50516 50517 28245 50518 50520 50520 50520 50520 50521 50521 50523 50524 50524 50524 50529 50529 7055 50530 50532 V049913-00 50532 50533 50533	BMF * WELL GS-05 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBB DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY BUTTE-SILVER BOW (I) RHODIA INC *WELL 1A RAUGH WILLIAM NORTHERN PACIFIC RR RHODIA INC *WELL 2 RHONE-POULENC CHEMICALS * WELL 2	46.0124 -1 46.0132 -1 46.0094 -1 46.0064 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 46.0021 -1	1112.7243 1112.7243 1112.7311 1112.7313 1112.7255 1112.7255 1112.7255 1112.7255 1112.7213 1112.7223 1112.7233 1112.7	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 0 0 0 03N 0 0 0 03N 0 0 0 0 0 0 0 0 0	9W 16 E 9W 16 C 9W 21 C 9W 22 A	BDC NO DAD NO DCDB YES DC NO DCDB YES DC NO DCC NO DCC NO DCC NO DCC NO DCC NO DCC YES DCC YES DCDC YES DCDCC YES DCDC YES DCDC YES DCDC YES DCDC YES DCDC YES DCDC YES DCDCC YES DCDC YES DCDC YES DCDC YES DCDC YES	WELL WELL WELL WELL WELL WELL WELL WELL	3 124LDCK 1 1 124LDCK 1 1 2 2 2 124LDCK 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	81.00 8 81.17.00 9 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 175.00 9 202.00 0 102.00 1 127.00 0 127.00 9 12	1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.20 0.0 1.55.00 0.0 1.55.00 0.0 1.55.00 0.0 1.50 0.0 1.50 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.10 0.0 1.50 15.0 1.5	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	OKEEFE OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1984 1/17/1984 1/17/1984 1/17/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 1/17/1980 1/17/1983 1/17/1	MONITORING DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC DOMESTIC DOMESTIC UNKNOWN MONITORING INDUSTRIAL INDUSTRIAL INDUSTRIAL INDUSTRIAL INDUSTRIAL	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 100.0 155.0 175.0 100.0 155.0 175.0 16.0 26.0 0.0 7.0 16.5 26.5 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 16.0 26.0 0.0 3.5 5.0 5.5 7.0 7.5 9.0 9.5 80.0 107.0 0.0 0.0 80.0 107.0 0.0 0.0 140.0 20.0 140.0 20.0 105.0 125.0 0.0 0.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0 136.0 20.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS .03 FACTORY SLT .04 FACTORY SLT .05 FACTORY SLT .06 FACTORY SLT .07 FACTORY SLT .08 FACTORY SLT .09 FACTORY SLT .17 SIMETER LYSIMETER TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS STAINLESS STEEL SC SLOTS SLOTS 1/4 IN SLOTS TORCH CUTS SLOTS TORCH CUTS SLOTS
	50496 50497 71120 50498 50499 50500 50501 50502 50503 50504 50505 50506 50507 50508 50509 50510 50512 50513 50514 50515 50516 50516 50517 28245 50518 50520 50521 50522 50521 50522 50523 19457 50524 50524 50524 50529 7055 50530 50529 7055 50530 50529 7055 50530 50529 7055	BMF * WELL GS-06 BMF * WELL GS-06 FARGHER KENT KING TONY TOOMBS ROBERT ELLERMAN EDWARD HITSHEW KJJACOBSEN D MILES FRANK SCHLOSSER RON FALKOWSKI WALT SILVERBOW CREEK * CERCLA TS-01 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-02 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-03 SILVERBOW CREEK * CERCLA TS-05 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-06 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-07 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-09 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-10 SILVERBOW CREEK * CERCLA TS-11 SAVILLE DUANE DOBD DAVID E. MCLEOD JACK L. OCONNOR DAN KEYSER DEAN DARLOW MARK SEVORES JOHN EARHART JERRY BUTTE-SILVER BOW (I) RHODIA ING * WELL 1A RAUGH WILLIAM NORTHERN PACIFIC RR RHODIA ING * WELL 2 RHONE-POULENC CHEMICALS * WELL 2 RHONE-POULENC CHEMICALS * WELL 2 BUTTE-SILVERBOW METRO SEWER SLUDGE WELL-G	46.0124 -1 46.0132 -1 46.0034 -1 46.0066 -1 46.0066 -1 46.0066 -1 45.9977 -1 45.9981 -1 45.9975 -1 46.0021 -1	111.7243 112.7243 112.7311 112.7283 112.7311 112.7283 112.7285 112.7228 112.7228 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.7213 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6219 112.6221 112.6222 112.6221 112.6221 112.6221 112.6221 112.6221 112.6221 112.6221 112.6221 112.6221 112.6222	TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 0 0 0 0 0 0 0 0 0	9W 16 E 9W 16 C 9W 21 C 9W 22 A	BDC NO DCAD NO DCDB YES DC NO DC YES DC YES DC NO DC YES DC YES DC YES DC NO DC YES DC YES DC YES DC YES DC NO DC YES DC YES DC YES DC YES DC YES DC NO DC YES	WELL WELL WELL WELL WELL WELL WELL WELL	3 124LDCK 1 1 124LDCK 1 1 1 2 2 124LDCK 1 1 2 2 124LDCK 1 1 2 2 2 8 8 7 7 9 9 9 9 1 1 1 2 2 11PLNC 1 1 2 2 11PLNC 8 1 20SDMS 2 120SDMS 2 120SDMS 2 120SDMS 2 120SDMS 2 120SDMS 2	81.00 8 8 117.00 9 117.00 9 117.00 9 117.00 9 102.00 4 1175.00 9 1225.00 0 102.00 10 1175.00 9 1225.00 10 1127.00 9 127.	1.20 0.0 1.2	12.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 6	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	OKEEFE OKEEFE	3/15/1985 1/17/1987 1/17/1987 1/17/1987 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1980 1/17/1980 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 3/13/1985 1/17/1980 1/17/1981	MONITORING DOMESTIC DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC UNUSED IRRIGATION DOMESTIC DOMESTIC DOMESTIC DOMESTIC DOMESTIC MONITORING DOMESTIC UNKNOWN DOMESTIC UNKNOWN DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING DOMESTIC UNKNOWN MONITORING INDUSTRIAL	19.0 29.0 97.0 117.0 85.0 124.0 0.0 0.0 155.0 175.0 100.0 225.0 0.0 0.0 1100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 175.0 100.0 155.0 127.0 16.0 26.0 16.0 26.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 7.0 2.0 108.0 107.0 108.0 107.0 108.0 108.0 107.0 0.0 108.0 140.0 200.0 105.0 125.0 0.0 0.0 136.0 206.0 34.0 39.0 0.0 123.0 123.0 128.0 0.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0 200.0 122.0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.03 FACTORY SLT SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS .03 FACTORY SLT .04 FACTORY SLT .05 FACTORY SLT .06 FACTORY SLT .07 FACTORY SLT .08 FACTORY SLT .09 FACTORY SLT .17 SIMETER LYSIMETER TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS STAINLESS STEEL SC SLOTS SLOTS 1/4 IN SLOTS TORCH CUTS SLOTS TORCH CUTS SLOTS

	SITE_NAME	LAT	LON	GEOMETHOD	DATUM			C Q_SEC	VERIFIED_	TYPE AQUIFER				TIME DSS	RWL RTIME	DRILLER			DIA OPEI	N OPEN_1	DESCRIPTIO
50544 50545 10028	PORT OF MONTANA GRAIN TERMINAL *WELL #2 HANSEN MARK	45.9895 45.9899		TRS-TWN	NAD27 NAD27		09W 24 09W 24		YES NO	WELL 120SDMS WELL 120SDMS	35.00 47.00	19.00 0.0 10.00 0.0	30.0 BAILER	0.0 0	0 0.00	OKEEFE	7/23/1985 COMMERCIAL 1/1/1976 PUBLIC WATER SUPPLY	26.0 33.0 40.0 45.0	6 0	8-Jan	TORCH CUTS
50546	BUTTE-SILVER BOW (J)	45.9863		UNKNOWN	NAD27		09W 25		YES	WELL 120SDMS		61.58 0.0	0.0	0.0 0	0.00		1/1/1989 MONITORING	65.0 78.0	4 0	+	SAW SLOTS
50547	BUTTE-SILVERBOW METRO SEWER SLUDGE WELL-L	45.9850		UNKNOWN	NAD27		09W 25		YES	WELL 120SDMS			8.0 VOLUMETR		0 0.00		1/1/1989 MONITORING	55.0 70.0	0 0		SAW SLOTS
50548	BUTTE-SILVERBOW METRO SEWER SLUDGE WELL-K	45.9830		UNKNOWN	NAD27		09W 25		YES	WELL 120SDMS		69.86 0.0	0.0	0.0 0	0 0.00		1/1/1989 MONITORING	60.0 75.0	4 0		SAW SLOTS
50549 50550	COTTON STANLEY SCHNADEL OSCAR #1	45.9831 45.9942		TRS-TWN SUR-GPS	NAD27 NAD27		09W 28 09W 28		NO NO	WELL 120SDMS	187.00 20.00	40.00 182.0 15.00 0.0	20.0 AIR	2.0 0 0.0 0	0 0.00	LINDSAY	1/1/1986 DOMESTIC 1/1/1920 DOMESTIC	100.0 180.0	0 0	1/4X4	SLOTS
50551	SCHNADEL OSCAR #4	45.9831		TRS-TWN	NAD27		09W 28		NO	WELL			0.0	0.0 0	0 0.00		DOMESTIC	0.0 0.0	0 0		
50552	SCHNADEL OSCAR #2	45.9831		TRS-TWN	NAD27		09W 28			WELL 120SDMS		20.00 0.0	5.0	0.0	0.00		1/1/1959 DOMESTIC	0.0 0.0	0 0		
50553	SCHNADEL OSCAR #3	45.9831		TRS-TWN	NAD27		09W 28		NO	WELL 120SDMS	12.00	10.00 0.0	5.0	0.0	0.00	OVEEE	1/1/1935 DOMESTIC	0.0 0.0	0 0		
50554 16472 50555	BERTRAND GEORGE HANCOCK KIM	45.9891 45.9883	-112.7159	TRS-TWN	NAD27 NAD27		09W 28 09W 28		NO YES	WELL 211PLNC WELL 124LDCK			15.0 25.0 AIR	0.0 0 2.0 0	0 0.00	OKEEFE OKEEFE	1/1/1977 DOMESTIC 1/1/1987 DOMESTIC	100.0 120.0 30.0 50.0	0 0	-	SAW SLOTS
50559	ANDERSON PATTY	45.9684		TRS-TWN	NAD27		09W 33		NO	WELL				0.0 0	0 0.00	OKEEFE	1/1/1979 DOMESTIC	40.0 103.0	4 0		SAW SLOTS
	QUINN HUGH	45.9740		TRS-TWN	NAD27		09W 33		NO	WELL		78.00 0.0		2.0 0	0.00	OKEEFE	1/1/1988 DOMESTIC	170.0 250.0	4 0		SAW SLOTS
50561 66055 50562 20834	MASON DAVID TINSLEY DALE	45.9749 45.9738		TRS-TWN NAV-GPS	NAD27 NAD27		09W 33 09W 33		NO YES	WELL 211BDBT		50.00 180.0 15.00 250.0		2.0 0 3.0 0	0 0.00	LINDSAY	1/1/1987 DOMESTIC 1/1/1976 DOMESTIC	120.0 200.0 186.0 266.0	4 0	1/4X4 1/4X4	SLOTS SLOTS
50563 22989	RONCHETTO RONALD	45.9702		TRS-TWN	NAD27		09W 33		NO	WELL ZIIBDBI		40.00 0.0		0.0 0	0 0.00	OKEEFE	1/1/1978 DOMESTIC	280.0 300.0	4 0	1/4/4	SAW SLOTS
50564 9890	RONCHETTO RON	45.9707		TRS-TWN	NAD27		09W 33		NO	WELL 120PLNC		20.00 120.0		3.0 0	0.00	LINDSAY	1/1/1976 DOMESTIC	84.0 126.0	4 0	1/4X4	SLOTS
50565 21646	DEPLAZES JOE	45.9669		TRS-TWN	NAD27		09W 33		NO	WELL 211PLNC		0.00 0.0		0.0 0	0 0.00	OKEEFE	1/1/1978 DOMESTIC	60.0 80.0	4 0		SAW SLOTS
50566 21677 120324	JOHNSTON MARIE POYNTER ALBERT	45.9621 45.9940		TRS-TWN	NAD27 NAD27		09W 33 08W 19			WELL 211PLNC WELL		0.00 0.0 140.00 148.0		0.0 0 2.0 0	0 0.00	OKEEFE BRAZILL	1/1/1978 DOMESTIC 8/22/1990 DOMESTIC	95.0 115.0 165.0 185.0	4 0	1/8X4	SAW SLOTS SAW SLOTS
120709	RICHTER RUDY	46.0066		TRS-TWN	NAD27		09W 16		NO	WELL		30.00 60.0		2.0 0	0 0.00	BRAZILL	10/3/1990 DOMESTIC	78.0 98.0	4 0	1/8X4	SAW SLOTS
124090 81654	SEYMOUR DICK	45.9799	-112.7048	TRS-TWN	NAD27	03N	09W 27	CAC	NO	WELL		30.00 0.0		1.5 0	0.00	OKEEFE	3/29/1991 DOMESTIC	178.0 162.0	6 0		TORCH CUTS
125237	SEYMOUR KEVIN			TRS-TWN	NAD27		09W 27		NO	WELL		23.00 0.0		1.0 0	0 0.00	OKEEFE	3/23/1991 DOMESTIC	92.0 98.0	4 0		SAW SLOTS
125257 79744 129085	UELAND RANCHES PORT OF MONTANA			NAV-GPS NAV-GPS	NAD27 NAD27		09W 15 09W 24		YES YES	WELL 120SNGR WELL 120SDMS			30.0 BAILER 92.0 BAILER	1.5 0 8.0 0	0 0.00	OKEEFE TRI VALLEY	9/6/1991 UNUSED 7/30/1988 PUBLIC WATER SUPPLY	41.0 48.0 101.0 119.0	6 0 8 0	1/4X3	TORCH CUTS TORCH CUTS
131297	ARCO - STREAMSIDE TAILINGS WELL C-21	46.0007		NAV-GPS NAV-GPS	NAD27 NAD27		09W 24 09W 22		YES	WELL 120SDMS WELL 110ALVM	10.00		0.0	0.0 0	0.00	OKEEFE	9/15/1992 MONITORING	101.0 119.0 5.0 10.0	4 0	0.02	SCREEN
131299	ARCO - STREAMSIDE TAILINGS WELL C-22	46.0122		NAV-GPS	NAD27		09W 16		YES	WELL 110ALVM	9.50	5.20 0.0	0.0	0.0 0	0 0.00	OKEEFE	9/16/1992 MONITORING	4.5 8.9	4 0		SLOTS
131301	ARCO - STREAMSIDE TAILINGS WELL C-18	46.0058	-112.6625		NAD27		09W 13		YES	WELL 110ALVM		3.30 0.0	0.0	0.0 0	0 0.00	OKEEFE	9/11/1992 MONITORING	3.0 7.4	4 0		PVC
131579 134633	MBMG FIELD COURSE WELL GIBSON DONNA	45.9884 45.9959		NAV-GPS TRS-TWN	NAD27 NAD27		09W 25 08W 19		YES NO	WELL 120SDMS WELL		0.00 0.0 150.00 180.0		0.0 0 2.0 0	0 0.00	POTTS DYNAMITE	7/16/1988 MONITORING 6/8/1993 DOMESTIC	0.0 0.0 160.0 200.0	0 0		1/8X6IN SAW
136948	BRACKETT GARY	46.0002		TRS-TWN	NAD27 NAD27		09W 22		NO	WELL		122.00 180.0		1.0 0	0.00	DYNAMITE	8/28/1993 DOMESTIC	160.0 200.0	4 0	+	1/8X6 SAW PF
137141	DICK JAMES	45.9684		TRS-TWN	NAD27		09W 33		NO	WELL	130.00		12.0 AIR	0.0 0	0 0.00	OKEEFE	9/7/1976 DOMESTIC	110.0 130.0	4 0	8-Jan	SLOTS
141259	NISSLER SPILL SITE * MW-1 * NORTH	46.0058		TRS-TWN	NAD27		08W 18		NO	WELL		21.75 0.0	0.0 BAILER	0.0 0	0.00	OKEEFE	2/7/1994 MONITORING	19.0 29.0	4 0	0.01	.01 PVC SCREEN
141262	NISSLER SPILL SITE * MW-2 * SW	46.0058		TRS-TWN	NAD27		08W 18		NO	WELL		5.07 0.0	0.0 BAILER	0.0	0 0.00	OKEEFE	2/11/1994 MONITORING	5.0 25.0	4 0	0.01	SCREEN 01 DVC SCREEN
141264 141266	NISSLER SPILL SITE * MW-3 * S-SW NISSLER SPILL SITE * MW-4 * SOUTH	46.0058 46.0058		TRS-TWN	NAD27 NAD27		08W 18 08W 18		NO NO	WELL WELL		18.79 0.0 19.08 0.0	0.0 BAILER 0.0 BAILER	0.0 0	0.00	OKEEFE OKEEFE	2/11/1994 MONITORING 2/15/1994 MONITORING	15.0 25.0 14.0 24.0	4 0	0.01	.01 PVC SCREEN
143518 91630	STOLTENBERG CURTIS & ALICE	45.9993		TRS-TWN	NAD27		09W 22		NO	WELL		87.00 135.0		1.0 0	0 0.00	BRAZILL	4/19/1994 DOMESTIC	140.0 160.0	4 0		1/8X4 SAW CUT
144008	UNIVERSITY OF MONTANA MT 94-1	46.0113		TRS-TWN	NAD27		09W 16		NO	WELL	15.20	0.00 0.0	0.0	0.0 0	0.00	WEIGHT	7/14/1994 MONITORING	0.0 0.0	0 0		FACTORY SLOTTED
144009	UNIVERSITY OF MONTANA MT 94-2	46.0113		TRS-TWN	NAD27		09W 16		NO	WELL 440ALVM	15.50	0.00 0.0	0.0	0.0	0 0.00	WEIGHT	7/14/1994 RESEARCH	5.5 15.5	2 0		TRI-LOC SCREEN
144010 149765	UNIVERSITY OF MONTANA MT 94-3 SCOULAR GRAIN * WELL NUMBER 1	46.0113 45.9895		TRS-TWN TRS-TWN	NAD27 NAD27		09W 16 09W 25		YES YES	WELL 110ALVM WELL 120SDMS	10.70 78.00	0.00 0.0 21.65 0.0	0.0 15.0 BAILER	0.0 0	0 0.00	WEIGHT OKEEFE	7/14/1994 RESEARCH 10/9/1984 PUBLIC WATER SUPPLY	5.7 10.7 71.0 76.0	6 0	8- Ian	TRI-LOC SCREEN TORCH CUTS
149770	INTERSTATE HIGHWAY WELL	45.9895		TRS-TWN	NAD27		09W 25		YES	WELL 120SDMS		20.00 0.0	0.0 BAILLIN	0.0 0	0 0.00	OKELIE		ANDONED 0.0 0.0	0 0	0-Jan	TOROTTOOTS
149879	MONTANA TECH GEOLOGY DEPT.	46.0142		TRS-TWN	NAD27		09W 16		YES	WELL		4.30 0.0	4.0	0.0 0	0.00		RESEARCH	9.0 14.0	2 0		SCREEN
153350	BUTTE-SILVERBOW BSB-01	45.9825	-112.6836		NAD27		09W 26		YES	WELL 120SNGR			60.0 AIRLIFT	1.2 0	0 0.00	OKEEFE	1/26/1996 MONITORING	157.0 217.0	2 0	_	6 IN SLOTS
153518 153519	HAZLETT BILL JENNINGS MARK & SHERRY	46.0062 45.9975		TRS-TWN	NAD27 NAD27		09W 14 09W 22		NO NO	WELL WELL	340.00	33.00 0.0 99.00 0.0	20.0 BAILER	1.0 0 1.5 0	0 0.00	OKEEFE OKEEFE	8/11/1995 DOMESTIC 6/15/1995 DOMESTIC	50.0 70.0 200.0 300.0	6 0	_	TORCH CUTS SAW SLOTS
153520	WIER GERALD	45.9930		NAV-GPS	NAD27		09W 22		YES	WELL 211BDBT		0.00 0.0	10.0 AIR	1.5 0	0 0.00	OKEEFE	6/26/1995 DOMESTIC	80.0 140.0	4 0		SAW SLOTS
153521 97431	MALONEY KELLEY & CATHY	45.9692		TRS-TWN	NAD27	03N	09W 33	BCC		WELL	400.00	0.00 380.0		1.0 0	0.00	BRAZILL	5/31/1995 DOMESTIC	160.0 400.0	4 0		1/8X4IN SAW
153816	BUTTE-SILVERBOW BSB-02	45.9755		TRS-TWN	NAD27		09W 26			WELL 120SDMS	.00.00	0.00 0.0	0.0	0.0 0	0 0.00	OKEEFE	2/5/1996 MONITORING	160.0 180.0	2 0	_	6 IN SLOTS
153820 154287	BUTTE-SILVERBOW BSB-04 BUTTE-SILVERBOW BSB-03	45.9821 45.9857		TRS-TWN TRS-TWN	NAD27 NAD27		09W 26	DBBB ACAAD	NO YES	WELL 120SDMS	200.00	11.15 27.0 0.00 0.0	40.0 PUMPING	0.0 0	0 0.00	OKEEFE OKEEFE	3/7/1996 MONITORING 2/6/1996 MONITORING	206.0 226.0 140.0 160.0	5 0	_	30 SLOT STEEL 6 IN SLOTS
154862	ERICKSON RANCH * TW-1	45.9952		TRS-TWN	NAD27		09W 21		NO	WELL		0.00	40.0	0.0 0	0 0.00	O.K.E.F.E	4/23/1992 MONITORING	0.0 0.0	0 0	1	0 111 02010
154863	ERICKSON RANCH * TW-2	46.0009		TRS-TWN	NAD27		09W 21		NO	WELL		0.00 0.0	1.0	0.0	0.00		4/28/1992	0.0 0.0	0 0		
156149 98738	BREWER KEVIN & VICKY	45.9949		TRS-TWN	NAD27		08W 19		NO	WELL		115.00 130.0			0.00	DYNAMITE	4/17/1996 DOMESTIC	125.0 155.0	4 0		1/8X6 SAW CUT
156178 158778 100235	REID ELNA MCINTEE THOMAS P	45.9971 45.9912		TRS-TWN TRS-TWN	NAD27 NAD27		09W 24 08W 19		NO NO	WELL WELL		19.50 50.0 119.00 0.0	13.0 BAILER 15.0 AIR	2.5 0 1.5 0	0.00	OKEEFE OKEEFE	10/20/1992 DOMESTIC 9/18/1996 DOMESTIC	50.0 70.0 141.0 155.0	6 0	_	TORCH CUTS SAW SLOTS
159832 98898	PIONEER CONCRETE	45.9989		TRS-TWN	NAD27		09W 24		NO	WELL		12.00 0.0		2.0 0	0 0.00	OKEEFE	8/5/1996 PUBLIC WATER SUPPLY	180.0 280.0	4 0	1	SAW SLOTS
160289 100288	BLOMSTROM KEITH	40.9909	-112.0003					CDA	NO	WELL	300.00	270.00 0.0					40/00/4000 DOMESTIC		4 0		SAW SLOTS
163488		46.0067	-112.6401	TRS-TWN	NAD27		08W 18				000.00		4.0 AIR	1.5 0	0.00	OKEEFE	10/23/1996 DOMESTIC	260.0 300.0	4 0		SLOTS
	UNIVERSITY OF MONTANA M97-4	46.0067 46.0113	-112.6401 -112.7227	TRS-TWN	NAD27	03N	09W 16	DBB		WELL	7.80	0.00 0.0	4.0 AIR 0.0	0.0 0	0.00	WEIGHT	7/9/1997 MONITORING	7.8 12.8	2 0	0.02	
163489 163490		46.0067 46.0113	-112.6401 -112.7227 -112.7227			03N 03N		DBB DBB	NO NO NO		7.80		4.0 AIR 0.0 0.0 0.0 0.0						2 0 2 0 2 0	0.02	SIZE20SLOTSCRN
163489 163490 163491	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1	46.0067 46.0113 46.0113 46.0113	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227	TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16	DBB DBB DBB DBB		WELL WELL WELL WELL	7.80 15.00 8.00 10.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0	0.0 0.0 0.0 0.0	0.0 0 0.0 0 0.0 0 0.0 0	0 0.00 0 0.00 0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0	2 0 2 0 2 0 2 0 2 0	0.02	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS
163489 163490 163491 163585	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 30	DBB DBB DBB DBB A	NO NO NO NO	WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0	0.0 0.0 0.0 0.0 0.0 15.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0	2 0 2 0 2 0 2 0 2 0 6 0	0.02	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS
163489 163490 163491 163585 163587 102996	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 16 08W 30 08W 30	DBB DBB DBB DBB A	NO NO NO NO	WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 12.00 0.0	0.0 0.0 0.0 0.0 0.0 15.0 BAILER 20.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0	2 0 2 0 2 0 2 0 2 0 6 0 6 0	0.02	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS
163489 163490 163491 163585	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE EARHART JERRY	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 46.0062	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6782	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 30 08W 30 09W 14	DBB DBB DBB DBB A A A DC	NO NO NO NO NO NO	WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 12.00 0.0	0.0 0.0 0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 20.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 770.0	2 0 2 0 2 0 2 0 2 0 6 0 6 0 4 0	0.02	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS
163489 163490 163491 163585 163587 103594 163594 163595 103001	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH	46.0067 46.0113 46.0113 46.0113 45.9860 45.9860 46.0062 45.9922 46.0137	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6782 -112.7357 -112.6894	TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 30 08W 30 09W 14 09W 21 09W 14	DBB DBB DBB DBB A A DC CCCB BC	NO NO NO NO NO NO NO YES	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 112.00 0.0 12.00 0.0 26.00 0.0 20.00 63.0	0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 30.0 AIR 20.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.0 0 1.5 0 1.0 0	0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT OKEEFE OKEEFE OKEEFE OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 4/18/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0	2 0 2 0 2 0 2 0 2 0 6 0 6 0 4 0 4 0		SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS
163489 163490 163491 163595 163587 163587 163594 163595 103001 163962 164857	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM	46.0067 46.0113 46.0113 46.0113 45.9860 45.9860 46.0062 45.9992 46.0137 45.9998	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6782 -112.6782 -112.6894 -112.6969	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 30 08W 30 09W 14 09W 21 09W 14	DBB DBB DBB A A DC CCCB BC ADAC	NO NO NO NO NO NO VO YES NO YES	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00 59.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 110.00 0.0 12.00 0.0 30.00 0.0 26.00 0.0 220.00 63.0 13.00 40.0	0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 30.0 AIR 20.0 BAILER 30.0 BAILER 30.0 BAILER 30.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.0 0 1.5 0 1.0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/18/1997 DOMESTIC 4/18/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0	2 0 2 0 2 0 2 0 2 0 6 0 6 0 4 0 4 0 6 0	4-Jan	SIZE 20SLOTS CRN SIZE 20SLOTS CRN SIZE 20SLOTS CRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS
163489 163490 163491 163585 163587 163594 163595 163595 103001 163962 164857 168835	UNIVERSITY OF MONTANA M97-2 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9962 46.0062 45.9922 46.0137 45.9998 46.0099	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6782 -112.6894 -112.6969 -112.6782	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 08W 30 08W 30 09W 14 09W 21 09W 14 09W 22 09W 14	DBB DBB DBB A A A DC CCCB BC ADAC DB	NO NO NO NO NO NO NO NO YES NO YES NO NO NO NO NO YES NO NO YES NO	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00 59.00 94.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 12.00 0.0 12.00 0.0 26.00 0.0 26.00 0.0 45.00 40.0 45.00 70.0	0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 30.0 AIR 20.0 BAILER 20.0 BAILER 30.0 BAILER BAILER BAILER BAILER BAILER BAILER BAILER BAILER BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.5 0 1.0 0 1.0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 4/18/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 STOCKWATER	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0	6 0 6 0 6 0	4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS
163489 163490 163491 163595 163587 163587 163594 163595 103001 163962 164857	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 46.0062 45.9922 46.0137 45.9982 46.0099	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6782 -112.6969 -112.6782 -112.6782	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 30 08W 30 08W 30 09W 14 09W 21 09W 14 09W 22 09W 14 09W 14	DBB DBB DBB DBB A A A DC CCCB BC ADAC DB DB DB CADB	NO NO NO NO NO NO YES NO YES NO NO	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00 59.00 94.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 12.00 0.0 12.00 0.0 26.00 0.0 20.00 63.0 13.00 40.0 45.00 70.0 65.00 85.0	0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 20.0 BAILER 20.0 BAILER 20.0 BAILER 20.0 BAILER 30.0 BAILER 30.0 BAILER 30.0 BAILER 30.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.5 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/18/1997 DOMESTIC 4/18/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0	6 0 6 0 6 0	4-Jan	SIZE 20SLOTS CRN SIZE 20SLOTS CRN SIZE 20SLOTS CRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS
163489 163490 163491 163585 163587 163597 163595 163595 103001 163962 164857 168835 168836 168854 169822	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA M797-2 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-1 HALE JOYCE HALE JOYCE EARHART JERRY EERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9962 46.0062 45.9992 46.0137 45.9998 46.0099 46.0099 46.0099	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6782 -112.6894 -112.6782 -112.6782 -112.6782 -112.6782 -112.6784 -112.6784	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 08W 30 08W 30 09W 14 09W 21 09W 14 09W 22 09W 14 09W 14 09W 14	DBB DBB DBB DBB A A A DC CCCB BC ADAC DB DB CADB CA	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 60.00 63.00 59.00 94.00 127.00 50.00 260.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 10.00 0.0 12.00 0.0 26.00 0.0 26.00 0.0 20.00 63.0 45.00 70.0 65.00 85.0 120.00 255.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	79/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0	6 0 6 0 4 0 6 0 4 0	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS
163489 163490 163491 163595 163595 163594 163595 163995 163992 164857 168835 168836 168854 169822 170880	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY JACK	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9922 46.0137 45.9998 46.0099 46.0099 46.0099 46.0099 46.0099	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6782 -112.6	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 08W 30 08W 30 08W 30 09W 14 09W 21 09W 22 09W 14 09W 14 09W 15	DBB DBB DBB DBB A A A DC CCCB BC ADAC DB DB CADB CA	NO YES NO NO NO YES NO NO NO YES NO	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00 59.00 94.00 127.00 50.00 260.00 58.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 12.00 0.0 26.00 0.0 26.00 0.0 26.00 70.0 45.00 40.0 45.00 40.0 45.00 36.0 20.00 36.0 20.00 36.0 20.00 36.0	0.0 0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 20.0 BAILER 20.0 BAILER 30.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.0 0 1.5 0 1.0 0 1.	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 STOCKWATER 7/20/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 DOMESTIC 10/1/1998 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 38.0 58.0	6 0 6 0 4 0 6 0 4 0 4 0 4 0	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS SAW SLOTS
163489 163490 163491 163585 163587 103996 163594 163595 103001 163962 164887 168836 168836 168836 168836 168836 170880 170880 170881 C110370-00	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE EARHART JERRY EERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY MURRAY JACK HOFFMAN RICHARD	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.992 46.0137 45.9998 46.0099 46.0099 46.0099 46.0099 46.0096 45.9806 46.0064 46.0138	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6322 -112.6894 -112.6969 -112.6782 -112.7084 -112.6782 -112.7084 -112.6782 -112.6782 -112.6894 -112.6782 -112.6782 -112.6782 -112.6782 -112.6838 -112.6838 -112.6838	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN	NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 08W 30 08W 30 09W 14 09W 21 09W 14 09W 14 09W 15 08W 19 09W 15	DBB DBB DBB DBB A A DC CCCB BB ADAC DB CADB CA	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00 59.00 94.00 127.00 50.00 260.00 80.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 12.00 0.0 30.00 0.0 26.00 0.0 26.00 0.0 45.00 70.0 45.00 70.0 65.00 85.0 20.00 36.0 120.00 255.0 20.00 50.0	0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 30.0 BAILER	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/18/1997 DOMESTIC 4/18/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 BOMESTIC 10/1/1997 IRRIGATION 7/22/1998 STOCKWATER 7/20/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 DOMESTIC 11/17/1998 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 180.0 260.0 68.0 68.0 60.0 80.0	6 0 6 0 4 0 6 0 4 0 4 0 4 0	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS
163489 163490 163491 163595 163595 163594 163595 163995 163992 164857 168835 168836 168854 169822 170880	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY JACK	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9860 45.9922 46.0137 45.9992 46.0099 46.0099 46.0099 46.0096 45.9806 46.0064 46.0064 46.0064	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6782	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27 NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 08W 30 08W 30 08W 30 09W 14 09W 21 09W 22 09W 14 09W 14 09W 15	DBB DBB DBB DBB A A A DC CCCB BC ADAC DB CADB CA	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00 59.00 94.00 127.00 50.00 50.00 50.00 50.00 50.00 50.00 70.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 12.00 0.0 26.00 0.0 26.00 0.0 26.00 70.0 45.00 40.0 45.00 40.0 45.00 36.0 20.00 36.0 20.00 36.0 20.00 36.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.0 0 1.5 0 1.0 0 1.	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 STOCKWATER 7/20/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 DOMESTIC 10/1/1998 DOMESTIC	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 38.0 58.0	6 0 6 0 4 0 6 0 4 0 4 0 4 0	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS SAW SLOTS
163489 163490 163491 163585 163587 103996 163594 163595 103001 163962 164857 168835 168836 168836 168836 170880 1770880 173327 173328	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE HALE JOYCE EARHART JERRY EERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 46.0062 45.9922 46.0137 45.9998 46.0099 46.0099 46.0099 46.0096 45.9806 46.0064 46.0138 45.9925 45.9925 45.9925	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6322 -112.6324 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 03N 03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 16 09W 16 08W 30 09W 14 09W 21 09W 14 09W 27 09W 14 09W 15 09W 15 09W 14 09W 15 09W 15 09W 14 09W 22	DBB DBB DBB DBB A A DC CCCB BC ADAC DB CADB CA	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 60.00 63.00 59.00 94.00 127.00 50.00 50.00 80.00 63.00 59.00 94.00 127.00 60.00	0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0	0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 30.0 BAILER	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/14/1997 DOMESTIC 4/18/1997 DOMESTIC 6/2/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 STOCKWATER 10/1/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 DOMESTIC 10/1/1998 DOMESTIC 10/1/1998 DOMESTIC 10/1/1998 DOMESTIC 10/24/1997 MONITORING 10/23/1997 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 38.0 58.0 60.0 30.0 50.6 70.6 38.4 62.8 28.5 53.1	6 0 6 0 4 0 6 0 4 0 4 0 4 0	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH
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163489 163490 163491 163585 163587 102996 163595 163595 103001 163962 164867 168835 168836 168854 169822 170880 170881 170881 173327 173332 173331 173332 173334 173356 173356	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-5 SILVER BOW * MW-97-5 SILVER BOW * MW-97-8 RHONE-POULENC CHEMICALS MW-1-97 RHONE-POULENC CHEMICALS MW-3-97 RHONE-POULENC CHEMICALS MW-4-97	46.0067 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9922 46.0137 45.9998 46.0099 46.0099 46.0099 46.0096 45.9806 45.9925 46.0138 45.9925 45.9925 45.9925 45.9926 45.9928 45.9958 45.9958 45.9958 45.9958 45.9958 45.9958 45.9958 45.9958 45.9958 45.9854 45.9854 45.9854 45.9854 45.9854 45.9854 45.9856	.112.6401 .112.7227 .112.7227 .112.7227 .112.7227 .112.6322 .112.6322 .112.6894 .112.6782 .112.6792 .112.6792 .112.6793	TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 20 09W 14 09W 21 09W 14 09W 22 09W 14 09W 15 09W 15 09W 15 09W 12 09W 14 09W 20 09W 14 09W 20 09W 14 09W 20 09W 14 09W 20 09W 15 09W 15 09W 16 09W 26 09W 26 09W 26 09W 26	DBB DBB DBB DBB A A DC CCCB BC ADAC DB CADB CA	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 60.00 63.00 59.00 59.00 50.00 260.00 80.00 72.20 62.90 53.10 72.20 62.30 33.40 72.63 33.40 61.20	0.00 0.0 0.00 0.0	0.0 0.0 0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 20.0 BAILER 20.0 BAILER 20.0 BAILER 30.0 BAILER 20.0 BAILER 30.0 BAILE	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE LINDSAY OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/14/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 STOCKWATER 7/20/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 DOMESTIC 10/1/1998 DOMESTIC 10/1/1998 DOMESTIC 10/2/1997 MONITORING 10/23/1997 MONITORING 10/23/1997 MONITORING 10/27/1997 MONITORING 10/27/1997 MONITORING 10/27/1997 MONITORING 10/17/1997 MONITORING 10/14/1997 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 38.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 53.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 661.2	6 0 6 0 4 0 6 0 4 0 4 0 4 0	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS O10 SLOT PVC
163489 163490 163491 163585 163587 102996 163594 163595 103001 163962 164857 168835 168836 168836 168836 168836 173381 173322 173332 173332 173332 173334 173335 173356 173357 173357	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA M197-2 UNIVERSITY OF MONTANA M197-3 UNIVERSITY OF MONTANA M197-3 UNIVERSITY OF MONTANA M197-1 HALE JOYCE HALE JOYCE EARHART JERRY EERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 RICHER BOW * M	46.0067 46.0113 46.0113 46.0113 46.013 45.9860 45.9860 45.9860 46.0062 45.9922 46.0137 45.9998 46.0099 46.0099 46.0099 46.0096 45.9806 46.0138 45.9925 45.9925 45.9926 45.9926 45.9926 45.9926 45.9926 45.9926 45.9926 45.9854 45.9854 45.9854 45.9854 45.9854 45.9816 45.9816	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6322 -112.6322 -112.6323 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6783 -112.6783 -112.6793	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 17 09W 17 09W 14 09W 14 09W 15 09W 16 09W 26 09W 26 09W 26 09W 26	DBB DBB DBB DBB A A A DC CCCB BC ADAC DB DB CADB CA	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 63.00 63.00 63.00 59.00 127.00 56.00 58.00 80.00 58.00 62.00 62.00 63.00 59.00 94.00 127.00 50.00 63.00 59.00 94.00 127.00 63.00 59.00 94.00	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 12.00 0.0 12.00 0.0 12.00 0.0 12.00 0.0 13.00 0.0 13.00 40.0 13.00 40.0 15.00 85.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	79/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/14/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1997 MONITORING 10/24/1997 MONITORING 10/24/1997 MONITORING 10/27/1997 MONITORING 10/27/1997 MONITORING 10/18/1997 MONITORING 10/18/1997 MONITORING 10/18/1997 MONITORING 10/18/1997 MONITORING 10/13/1997 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 188.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 3.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 58.0	6 0 6 0 4 0 6 0 4 0 4 0 4 0	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS ON SLOT PUC ON SLOT PVC
163489 163490 163491 163585 163587 163587 163594 163595 103001 163657 168835 168854 169822 170880 170881 170880 170881 173328 173331 173332 173334 173355 173356 173357	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA M797-2 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-1 HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-5 SILVER BOW * MW-97-5 SILVER BOW * MW-97-7 RICHER BOW * MW-97-7 RICHER BOW * MW-97-8 RICHER BOW * MW-97-7 RICHER B	46.0067 46.0113 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9982 46.0137 45.9988 46.0099 46.0099 46.0099 46.0096 45.9806 46.0064 46.0138 45.9925 45.9925 45.9925 45.9925 45.9926 45.9854 45.9854 45.9854 45.9854 45.9854 45.9854 45.9854	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6352 -112.6859 -112.6854 -112.6838 -112.6838 -112.6838 -112.6838 -112.6838 -112.6794 -112.6806 -112.6806 -112.6806 -112.6806 -112.6879	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 20 09W 14 09W 21 09W 22 09W 12 09W 14 09W 15 09W 15 09W 15 09W 15 09W 15 09W 16 09W 26	DBB DBB DBB DBB DBB A A DC CCCB BC ADAC DB DB DB DB DB DB DB DB DB DD DC	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 63.00 63.00 59.00 94.00 58.00 58.00 80.00 72.20 62.90 62.30 33.40 61.20 68.20 68.30	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 110.00 0.0 112.00 0.0 226.00 0.0 226.00 0.0 236.00 85.0 25.00 85.0 25.00 50.0 25.00 0.0 25.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 1.0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 PUBLIC WATER SUPPLY 10/1/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 10/2/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/1/1997 MONITORING 10/10/1907 MONITORING 10/10/1907 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 280.0 38.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 53.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 58.0	6 0 6 0 6 0 4 0 4 0 4 0 4 0 2	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS PERFORATED CASING SAW SLOTS O10 SLOT PVC 010 SLOT PVC
163489 163490 163491 163585 163587 102996 163594 163595 103001 163962 164857 168835 168836 168836 168836 168836 173381 173322 173332 173332 173332 173334 173335 173356 173357 173357	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA M197-2 UNIVERSITY OF MONTANA M197-3 UNIVERSITY OF MONTANA M197-3 UNIVERSITY OF MONTANA M197-1 HALE JOYCE HALE JOYCE EARHART JERRY EERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 RICHER BOW * M	46.0067 46.0113 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9922 46.0137 45.9998 46.0099	.112.6401 .112.7227 .112.7227 .112.7227 .112.7227 .112.6322 .112.6322 .112.6834 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6792 .112.6792 .112.6792 .112.6792 .112.6792 .112.6792 .112.6793 .112.6793 .112.6793 .112.6793 .112.6793 .112.6793 .112.6793 .112.6898 .112.6793 .112.6793 .112.6898 .112.6898 .112.6793 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 20 09W 14 09W 21 09W 22 09W 12 09W 14 09W 15 09W 15 09W 15 09W 15 09W 15 09W 16 09W 26	DBB DBB DBB DBB A A A DC CCCB BC ADAC DB CADB CA	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 60.00 63.00 59.00 94.00 127.00 50.00 260.00 80.00 72.20 62.30 62.30 33.40 61.20 58.60 30.40 33.40 58.60 30.40 35.20	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 12.00 0.0 12.00 0.0 12.00 0.0 12.00 0.0 13.00 0.0 13.00 40.0 13.00 40.0 15.00 85.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15.00 15.00 15.0 15.00 15	0.0 0.0 0.0 0.0 0.0 15.0 BAILER 20.0 BAILER 30.0 BAILE	0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	79/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/14/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1997 MONITORING 10/24/1997 MONITORING 10/24/1997 MONITORING 10/27/1997 MONITORING 10/27/1997 MONITORING 10/18/1997 MONITORING 10/18/1997 MONITORING 10/18/1997 MONITORING 10/18/1997 MONITORING 10/13/1997 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 188.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 3.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 58.0	6 0 6 0 6 0 4 0 4 0 4 0 4 0 2	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS SAW SLOTS SAW SLOTS SAW SLOTS ON SLOT PUC ON SLOT PVC
163489 163490 163491 163585 163587 163587 163594 163595 16362 163657 168835 168854 169822 170880 170881 173327 173328 173331 173332 173334 173355 175350 175350 175351	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA M797-2 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-1 HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA MURRAY JACK HOFFMAN RICHARD SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-5 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 MINDER BOW * MW-97-7 SILVER BOW * MW-97-7 MINDER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 MINDER BOW * MW-97-7 SILVER B	46.0067 46.0113 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9982 46.0137 45.9998 46.0099 46.0099 46.0099 46.0096 45.9806 46.0064 46.0138 45.9925 45.9925 45.9925 45.9926 45.9854 45.9854 45.9854 45.9854 45.9854 45.9854 45.9816 45.9816 45.9987 45.9987 45.9997	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6832 -112.6852 -112.6852 -112.6832 -112.6832 -112.6838 -112.6838 -112.6838 -112.6794 -112.6806 -112.6806 -112.6806 -112.6859	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN TRS-TW	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 20 09W 14 09W 21 09W 21 09W 22 09W 14 09W 22 09W 15 09W 15 09W 15 09W 15 09W 15 09W 23 09W 23 09W 26 00W 26 00W 26 00	DBB DBB DBB DBB DBB DBB A A DC CCCB BC ADAC DB DB DB DB DB DB DB DB DD DC DC DC DC DC DC DC BD DCA DDB DDD DDD ADA BDA BDA BDA BDA BBD BBB BDDB BDDB BDDB BDDB BDDB BDDB BDDB BDDB BDDB BDAB BDAB BDAB BDAB	NO N	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 60.00 63.00 59.00 94.00 50.00 260.00 63.00 59.00 94.00 50.00 260.00 62.30 62.30 62.30 62.30 62.30 63.00 63	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 10.00 0.0 110.00 0.0 112.00 0.0 120.00 0.0 130.00 0.0 130.00 10.00 10.0 130.00 10.00 10.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 STOCKWATER 7/20/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 11/17/1998 DOMESTIC 10/2/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/1/1997 MONITORING 10/10/1997 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 280.0 38.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 53.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 58.0 35.0 38.0 35.0 38.0 35.0 38.0 28.0 33.0 28.0 33.0	6 0 6 0 6 0 4 0 4 0 4 0 4 0 2	4-Jan 4-Jan 4-Jan 4-Jan 4-Jan 1/8X4	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS T
163489 163490 163491 163585 163587 103996 163594 163595 103001 163962 164887 168836 168836 168836 168864 169822 170880 170881 170881 1713327 173332 173332 173332 173334 173355 173356 173356 173356 175350 175350 175352 175352	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA M197-2 UNIVERSITY OF MONTANA M197-3 UNIVERSITY OF MONTANA M197-3 UNIVERSITY OF MONTANA M197-3 HALE JOYCE HALE JOYCE EARHART JERRY EERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 RICHER BOW * MW-97-7 SILVER BOW	46.0067 46.0113 46.0113 46.0113 46.0113 46.013 45.9860 45.9860 46.0062 45.9922 46.0137 45.9998 46.0099 46.0009	.112.6401 .112.7227 .112.7227 .112.7227 .112.7227 .112.6322 .112.6322 .112.6322 .112.6322 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6792 .112.6792 .112.6898	TRS-TWN NAV-GPS TRS-TWN NAV-GPS TRS-TWN TRS-TW	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 30 08W 30 09W 14 09W 14 09W 14 09W 15 09W 15 09W 15 09W 16 09W 15 09W 16 09W 16 09W 16 09W 16 09W 16 09W 23 09W 26 09	DBB DBB DBB DBB A A A DC CCCB BC ADAC DB DB DBB CADB CAD	NO	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 70.00 60.00 63.00 59.00 59.00 50.00 260.00 80.00 62.90 62.90 62.30 32.70 33.40 61.20 58.60 30.40 35.20 29.50	0.00 0.0 0.00 0.0	0.0 0.0 0.0 0.0 0.0 0.0 15.0 BAILER 20.0 B	0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 1.0 0 0.0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	79/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/14/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 10/1/1997 MONITORING 10/24/1997 MONITORING 10/24/1997 MONITORING 10/27/1997 MONITORING 10/27/1997 MONITORING 10/17/1997 MONITORING 10/17/1997 MONITORING 10/18/1997 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 66.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 38.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 63.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 58.0 35.0 38.0 28.0 33.0 28.0 33.0 28.0 33.0 28.0 15.0 17.0	6 0 6 0 6 0 4 0 4 0 4 0 4 0 2	4-Jan 4-Jan 4-Jan 4-Jan 1/8X4	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS
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163489 163490 163491 163585 163587 163594 163595 163595 163595 163697 168835 168854 169822 170880 170880 170881 173328 173334 173356 173356 173356 175350 175351 175356 175356 175357 175358	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA M797-2 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-3 UNIVERSITY OF MONTANA M797-1 HALE JOYCE EARHART JERRY EERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB PAFFHAUSEN BOB MURRAY TY & WENDY DAVIS LINDA MURRAY TY & WENDY DAVIS LINDA MURRAY JACK HOFFMAN RICHARD SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-7 SILVER BOW * MW-97-5 SILVER BOW * MW-97-5 SILVER BOW * MW-97-5 SILVER BOW * MW-97-7 RHONE-POULENC CHEMICALS MW-1-97 RHONE-POULENC CHEMICALS MW-4-97 MBMG RESEARCH SITE * C11 MBMG RESEARCH SITE * C12 MBMG RESEARCH SITE * C13 MBMG RESEARCH SITE * C14 MBMG RESEARCH SITE * C15 MBMG RESEARCH SITE * C15 MBMG RESEARCH SITE * C16 MBMG RESEARCH SITE * D31 MBMG RESEARCH SITE * D46 MBMG RESEARCH SITE * D46 MBMG RESEARCH SITE * D46	46.0067 46.0113 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9860 46.0062 45.9992 46.0137 45.9980 46.0099 46.0004 46.0003 45.9992 46.9993 46.0010 46.00108	.112.6401 .112.7227 .112.7227 .112.7227 .112.7227 .112.6322 .112.6322 .112.6322 .112.6869 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6792 .112.6792 .112.6806 .112.6792 .112.6792 .112.6806 .112.6792 .112.6806 .112.6792 .112.6806 .112.6792 .112.6806 .112.6793 .112.6806 .112.6793 .112.6806 .112.6793 .112.6806 .112.6806 .112.6814 .112.6	TRS-TWN TRS-TW	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 16 09W 16 09W 17 09W 18 09W 23 09W 23 09W 26 09W 27 09W 28 09W 38 09	DBB	NO	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 70.00 70.00 60.00 127.00 63.00 59.00 94.00 127.00 58.00 58.00 62.90 62.90 63.10 772.20 62.30 33.40 61.20 68.80 30.40 35.20 19.00 15.00 15.00 15.00 15.00 15.00	0.00 0.0 0.00 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 RESEARCH 7/9/1997 MONITORING 4/14/1997 MONITORING 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 DOMESTIC 8/19/1997 WOMESTIC 10/1/1998 PUBLIC WATER SUPPLY 6/18/1998 DOMESTIC 11/1/1998 DOMESTIC 11/1/1998 DOMESTIC 11/1/1998 DOMESTIC 11/1/1998 DOMESTIC 11/1/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/2/1997 MONITORING 10/1/1997 MONITORING MONITORING MONITORING MONITORING 9/14/1992 MONITORING MONITORING 9/14/1992 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 58.0 50.6 70.6 38.4 62.8 28.5 53.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 88.0 35.0 38.0 28.0 33.0 28.0 33.0 28.0 33.0 28.0 33.0 28.0 15.0 17.0 10.0 15.0 17.0	6 0 6 0 6 0 4 0 4 0 4 0 4 0 2	4-Jan 4-Jan 4-Jan 4-Jan 1/8X4	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS ON SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS PERFORATED CASING SAW SLOTS ON SUCT PVC ON SLOT PVC SUCON SLOTTED PVC SC OZO SLOTTED PVC SC OZO SLOTTED SCREEN SCREEN
163489 163490 163491 163585 163587 163584 163594 163595 16362 163627 168835 168835 168835 168854 169822 170880 170881 170880 170881 173327 173328 173331 173332 173334 173355 173556 175356 175356 175356 175356 175356 175357 175388 175357	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY 8 WENDY DAVIS LINDA MURRAY TY 8 WENDY DAVIS LINDA SILVER BOW * MW-97-8 SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-5 SILVER BOW * MW-97-6 SILVER BOW * MW-97-7 SILVER BOW * MW	46.0067 46.0113 46.0113 46.0113 46.0131 45.9860 45.9860 46.0062 45.9922 46.0137 45.9998 46.0099 46.9992 46.9993 46.0004 46.01003 46.0003 46.0003 46.01010 46.0108	.112.6401 .112.7227 .112.7227 .112.7227 .112.7227 .112.6322 .112.6322 .112.6834 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6782 .112.6793 .112.6898 .112.6793 .112.6898 .112.6793 .112.6898 .112.6793 .112.6898 .112.6793 .112.6898 .112.6898 .112.6793 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6898 .112.6899	TRS-TWN TRS-TW	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 16 09W 16 09W 16 09W 16 09W 16 09W 20 09W 14 09W 21 09W 14 09W 22 09W 14 09W 22 09W 15 09W 15 09W 15 09W 15 09W 15 09W 15 09W 16 09W 23 09W 23 09W 26 09W 26 09W 26 09W 26 09W 26 09W 27 09W 27 09W 28 09W 29 09W 29 09W 29 09W 29 09W 20 09W 46 09	DBB	NO	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 76.00 63.00 63.00 59.00 94.00 127.00 50.00 260.00 58.00 62.90 62.90 62.90 62.30 33.40 61.20 58.60 30.40 35.20 29.50 15.00 15.00 15.00	0.00 0.0 0.00 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 POMESTIC 10/1/1998 DOMESTIC 10/1/1997 MONITORING 10/22/1997 MONITORING 10/23/1997 MONITORING 10/23/1997 MONITORING 10/20/1997 MONITORING 10/20/1997 MONITORING 10/17/1997 MONITORING 10/17/1997 MONITORING 10/14/1997 MONITORING 10/14/1999 MONITORING 10/14/1992 MONITORING 10/14/1999 MONITORING 11/26/1999 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 38.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 53.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 58.0 35.0 38.0 35.0 38.0 35.0 38.0 50.7 61.2 53.0 58.0 10.0 10.0 15.0 10.0 15.0 10.0 15.0 10.0 15.0 10.0 15.0 10.0 0.0 0.0 0.0	6 0 6 0 6 0 4 0 4 0 4 0 4 0 2	4-Jan 4-Jan 4-Jan 4-Jan 1/8X4	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS
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163489 163490 163491 163585 163587 163584 163594 163595 16362 163627 168835 168835 168835 168854 169822 170880 170881 170880 170881 173327 173328 173331 173332 173334 173355 173556 175356 175356 175356 175356 175356 175357 175388 175357	UNIVERSITY OF MONTANA M97-4 UNIVERSITY OF MONTANA MT97-2 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-3 UNIVERSITY OF MONTANA MT97-1 HALE JOYCE EARHART JERRY ERICKSON DAVE UELAND RANCH HESS TIM PAFFHAUSEN BOB MURRAY TY 8 WENDY DAVIS LINDA MURRAY TY 8 WENDY DAVIS LINDA SILVER BOW * MW-97-8 SILVER BOW * MW-97-8 SILVER BOW * MW-97-7 SILVER BOW * MW-97-5 SILVER BOW * MW-97-6 SILVER BOW * MW-97-7 SILVER BOW * MW	46.0067 46.0113 46.0113 46.0113 46.0113 46.0113 45.9860 45.9860 45.9860 46.0062 45.9922 46.0137 45.998 46.0099 46.0004 46.0003 45.9987 45.9987 45.9987 45.9987 45.9993 46.0110 46.0111 46.0058 46.0025	-112.6401 -112.7227 -112.7227 -112.7227 -112.7227 -112.6322 -112.6322 -112.6894 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6782 -112.6793 -112.6793 -112.6806 -112.6793 -112.6806 -112.6793 -112.6806 -112.6806 -112.6806 -112.6793 -112.6806 -112.6806 -112.6806 -112.6806 -112.6806 -112.6811 -112.6	TRS-TWN TRS-TW	NAD27	03N 03N 03N 03N 03N 03N 03N 03N	09W 16 09W 20 09W 17 09W 14 09W 21 09W 17 09W 18 09W 28 09W 38 09	DBB	NO	WELL WELL WELL WELL WELL WELL WELL WELL	7.80 15.00 8.00 10.00 70.00 74.00 60.00 63.00 127.00 58.00 94.00 58.00 58.00 80.00 72.20 62.90 63.31 61.20 62.30 33.40 61.20 58.60 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 16.00	0.00 0.0 0.00 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00	WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT OKEEFE	7/9/1997 MONITORING 7/9/1997 MONITORING 7/9/1997 RESEARCH 7/9/1997 MONITORING 7/9/1997 MONITORING 4/14/1997 DOMESTIC 4/14/1997 DOMESTIC 4/11/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 6/2/1997 DOMESTIC 10/1/1997 IRRIGATION 7/22/1998 POMESTIC 10/1/1998 DOMESTIC 10/1/1997 MONITORING 10/22/1997 MONITORING 10/23/1997 MONITORING 10/23/1997 MONITORING 10/20/1997 MONITORING 10/20/1997 MONITORING 10/17/1997 MONITORING 10/17/1997 MONITORING 10/14/1997 MONITORING 10/14/1999 MONITORING 10/14/1992 MONITORING 10/14/1999 MONITORING 11/26/1999 MONITORING	7.8 12.8 7.0 12.0 8.0 13.0 10.0 15.0 60.0 66.0 64.0 70.0 50.0 70.0 40.0 60.0 43.0 49.0 49.0 55.0 74.0 94.0 87.0 127.0 40.0 46.0 180.0 260.0 38.0 58.0 60.0 80.0 50.6 70.6 38.4 62.8 28.5 53.1 48.2 72.6 47.6 62.3 22.2 32.7 13.8 33.4 50.7 61.2 53.0 58.0 35.0 38.0 35.0 38.0 35.0 38.0 50.7 61.2 53.0 58.0 10.0 10.0 15.0 10.0 15.0 10.0 15.0 10.0 15.0 10.0 15.0 10.0 0.0 0.0 0.0	6 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4-Jan 4-Jan 4-Jan 4-Jan 1/8X4	SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRN SIZE20SLOTSCRNS TORCH CUTS TORCH CUTS SAW SLOTS SAW SLOTS TORCH CUTS TORCH CUTS TORCH CUTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS ON SAW SLOTS TORCH CUTS SAW SLOTS TORCH CUTS PERFORATED CASING SAW SLOTS ON SUCT PVC ON SLOT PVC SUCON SLOTTED PVC SC OZO SLOTTED PVC SC OZO SLOTTED SCREEN SCREEN

GWIC_ID	DNRC_ID	SITE_NAME	LAT	LON GEOM	ETHOD D	DATUM	TWN RNG	SEC	Q_SEC	VERIFIED_	TYPE	AQUIFER	TD	SWL	PWL	/IELD 1	TYPE_1	TIME	DSS RW	L RTIME	DRILLER	DATE_	USE	STATUS	FROM_TO	DIA	OPEN (OPEN_1	DESCRIPTIO
178988		MONTANA TECH DEPT GEOL. ENGINEERING MT99-2	46.0133	-112.7339 TRS-T	WN N	IAD27	03N 09W	16	BCC	NO	WELL		13.50	5.60	0.0	0.0		0.0	0 0	0.00	MBMG	7/6/1999	MONITORING		8.0 13.0	2 () (0.02	SCREEN-PVC
179104		BLOMSTROM KEITH	46.0067	-112.6401 TRS-T	WN N	IAD27	03N 08W	18	CDA	NO	WELL		0.00	0.00	0.0	0.0		0.0	0 0	0.00	OKEEFE	8/24/1999	DOMESTIC	DRY HOLE	0.0 0.0	0 ()		
179105		BLOMSTROM KEITH	46.0055	-112.6450 MAP		IAD27	08W	18	CDAC	YES	WELL	211BDBT	200.00	26.00	0.0	5.0 A	AIR	2.0	300 26	2.00	OKEEFE	8/24/1999	DOMESTIC		220.0 280.0	4 () 1	1/8X6	SAW SLOTS
179113	C107958	HAZLETT JR BILL AND LINDA	46.0062	-112.6838 TRS-T	WN N	IAD27	03N 09W	14	CD	NO	WELL		70.00	35.00	50.0	20.0 E	BAILER	1.0	0 35	0.03	OKEEFE	7/31/1998	DOMESTIC		50.0 70.0	4 ()		1/4 SAW
179114		MONTANA TECH	46.0132	-112.7338 TRS-T	WN N	IAD27	03N 09W	16	BCC	NO	WELL		13.00	7.04	0.0	0.0		0.0	0 0	0.00	MBMG	7/6/1999	MONITORING		8.0 13.0	2 ()		SCREEN-PVC
179116		HITSHEW KEN	45.9917	-112.7044 TRS-T		IAD27	03N 09W	22	CD	NO	WELL		140.00	35.00	135.0	25.0 A	AIR	1.0	0 35	1.00	LINDSAY	4/21/1999	DOMESTIC		80.0 140.0	4 ()		
179117	C109085	DAVIS WAYNE	45.9700	-112.7025 TRS-T	WN N	IAD27	03N 09W	34	BD	NO	WELL		120.00	35.00	0.0	5.0 A	AIR	1.0	118 35	0.25	OKEEFE	7/8/1999	DOMESTIC		80.0 100.0	4 () 1	1/8X6	SAW SLOTS
181443		RHONE-POULENC CHEMICALS * P-99-4	45.9953	-112.6829 TRS-T		IAD27	03N 09W	23	CA	NO	WELL		36.60	20.50	0.0	0.0		0.0	0 0	0.00	OKEEFE	3/12/1999	MONITORING		0.0	0 ()		
181444		RHONE-POULENC CHEMICALS * P-99-1	45.9807	-112.6876 TRS-T	WN N	IAD27	03N 09W	26	CB	NO	WELL		12.40	2.50	0.0	0.0		0.0	0 0	0.00	OKEEFE	3/17/1999	MONITORING		0.0	0 ()		
181445		RHONE-POULENC CHEMICALS * P-99-2	45.9845	-112.6876 TRS-T	WN N	IAD27	03N 09W	26	BC	NO	WELL		10.40	2.45	0.0	0.0		0.0	0 0	0.00	OKEEFE	3/17/1999	MONITORING		0.0 0.0	0 ()		
181446		RHONE-POULENC CHEMICALS * P-99-3	45.9807	-112.6820 TRS-T		IAD27	03N 09W	26	CA	NO	WELL		42.60	20.50	0.0	0.0		0.0	0 0	0.00	OKEEFE		MONITORING		0.0	0 ()		
184336		MBMG RESEARCH SITE * C09	46.0034	-112.7016 SUR-0	SPS N	IAD27	03N 09W	22	ABAC	NO	WELL		25.50	0.00	0.0	0.0		0.0	0 0	0.00	OKEEFE	11/9/1991	MONITORING		19.0 24.0	4 ()		.02 SLOT SCREENS
184337		MBMG RESEARCH SITE * C14	46.0022	-112.6855 SUR-0		IAD27	03N 09W	23	BADD	NO	WELL		21.00	0.00	0.0	0.0		0.0	0 0	0.00	OKEEFE		MONITORING		13.0 18.0	4 ()		.02 SLOT SCREENS
184338		MBMG RESEARCH SITE * GMW-01	46.0066	-112.6624 SUR-0	SPS N	IAD27	03N 09W	13	CDD	NO	WELL		13.50	7.37	0.0).0 E	BAILER	1.5	0 0	0.00	WEIGHT	5/18/2000	MONITORING		8.0 13.0	2 ()		20 SLOT SCREENS
184339		MBMG RESEARCH SITE * GMW-02	46.0066	-112.6624 SUR-0	SPS N	IAD27	03N 09W	13	CDD	NO	WELL		14.00	7.30	0.0).O E	BAILER	1.5	0 0	0.00	WEIGHT	5/18/2000	MONITORING		8.0 13.0	2 ()		20 SLOT SCREENS
184340		MBMG RESEARCH SITE * GMW-03	46.0065	-112.6624 SUR-0		IAD27	03N 09W	13	CDD	NO	WELL		17.00	7.20	0.0).0 E	BAILER	1.0	0 0	0.00	WEIGHT	7/14/2000	MONITORING		12.0 16.0	2 ()		20 SLOT SCREENS
184341		MBMG RESEARCH SITE * GMW-04	46.0066	-112.6625 SUR-0	SPS N	IAD27	03N 09W	13	CDD	NO	WELL		17.00	7.22	0.0).O E	BAILER	1.0	0 0	0.00	WEIGHT	7/14/2000	MONITORING		16.5 20.0	2 ()		20 SLOT SCREENS
184510	C110296-00	LAVELLE BILL	46.0076	-112.6337 TRS-T	WN N	IAD27	03N 08W	18	D	NO	WELL		80.00	38.00	70.0	10.0 A	AIR	1.0	0 38	0.02	BRAZILL	7/28/1999	DOMESTIC		60.0 80.0	4 () 1	1/8X4	SAW SLOTS
185824		GORDON JOHN	45.9954	-112.6458 MAP	N.	IAD27	03N 08W	19	CABD	YES	WELL	120SNGR	118.00	90.00	0.0	25.0 A	AIR	1.0	110 90	1.00	AK	9/6/2000	IRRIGATION		98.0 118.0	6 () 1	1/4X10	TORCH CUTS
191148	C007055-00	RAUCH BILL	46.0003	-112.6960 MAP	N.	IAD27	03N 09W	34	ABDC	YES	WELL	120SNGR	49.00	26.00	0.0	15.0 E	BAILER	0.0	0 0	0.00	OKEEFE	9/9/1975	DOMESTIC		34.0 39.0	6 () (8-Jan	SLOTS
191307		ADVANCED SILICON MATERIALS INC	45.9652	-112.6859 NAV-C		IAD27	03N 09W	35	CADC	YES	WELL	120SNGR	96.00	51.00	0.0	35.0 A	AIR	2.0	0 51	1.00	OKEEFE	9/25/1996	PUBLIC WATER SUPPLY	Y	80.0 96.0	6 ()		0.04 SLOT SCREEN
192353		HOLTER CLARENCE	45.9912	-112.6457 TRS-T	WN N	IAD27	03N 08W	19	CC	NO	WELL		155.00	130.00	145.0	20.0 E	BAILER	2.0	0 130	0.01	OKEEFE	7/31/2001	DOMESTIC		125.0 155.0	4 () 1	1/8X3	TORCH CUTS
196330		ANDERS BRADY	45.9993	-112.7099 TRS-T		IAD27	03N 09W	22	BC	NO	WELL		217.00	121.00	0.0	4.0 A	AIR	2.0	215 121	1.00	AK	5/18/2002	DOMESTIC		157.0 217.0	0 ()		1/8X4IN CHOP SAW PE
198081		ARCO - STREAMSIDE TAILINGS OPERABLE UNIT * C-23		-112.7248 TRS-T		IAD27	03N 09W	16	BDDD	NO	WELL		12.00	5.40	0.0	0.0		0.0	0 0	0.00	OKEEFE	9/16/1992	MONITORING		4.5 9.5	4 ()		.02 SLOT SCREENS
198165	C30003424	MOWRER CARROLL L AND ZONA L	46.0018	-112.6601 TRS-T		IAD27	03N 09W	24	BAD	NO	WELL		120.00	15.00	0.0	30.0 A	AIR	1.0	120 15	1.00	LINDSAY	7/30/2002	DOMESTIC		60.0 120.0	4 ()		PERFORATED CASING
202627		CRIPPA LENORE	45.9665	-112.7184 TRS-T		IAD27	03N 09W	33	DB	NO	WELL		180.00	60.00	0.0	30.0 A	AIR	2.0	175 60	1.00	BRIDGER	5/15/2003	DOMESTIC		140.0 180.0	4 ()		.025X1.25 FACT SLOT
203981		BLOMSTROM KEITH	46.0061	-112.4783 NAV-G		IAD27	08W	18	CDB	NO	WELL		400.00	26.00	0.0	2.0 A	AIR	2.0	350 26	0.50	AK	5/20/2003	DOMESTIC		340.0 400.0	4 ()		1/8X4IN CHOP SAW
206158		DUHAME JOHN AND GLENDA	46.0039	-112.6871 TRS-T		IAD27	09W	23	BBA	NO	WELL		76.00	12.00	0.0	20.0	AIR	2.0	60 12	1.50	AK DRILLING		DOMESTIC		40.0 70.0	6	50 2	2 X 1/8 IN	MECHANICAL/AIR OPE
207856		DUPONT CORPORATION	46.0128	-112.6769 TRS-T		IAD27	03N 09W	14	ACD	NO	WELL		21.00	0.00	0.0	0.0		0.0	0 0	0.00	MAXIM	3/21/2002		ABANDONED	10.0 21.0	60)		OPEN HOLE
211525		SEYMOUR DICK	45.9719	-112.7053 TRS-T	WN N	IAD27	03N 09W	34	В	NO	WELL		326.00	20.00	0.0	2.0 A	AIR	1.0	340 20	12.00	O'KEEFE	4/23/2004	DOMESTIC		286.0 326.0	4 5	54 1	1/8X6	SKILL SAW

Appendix 2-F

Rhodia's 1995 State Fluoride in Forage Report

RHÔNE-POULENC BASIC CHEMICALS CO.

P.O. BOX 3146 BUTTE, MT 59702 TEL: (406) 782-1215 FAX: (406) 782-4498

February 9, 1996

Mr. Robert K. Jeffery Montana Air Quality Division P.O. Box 200901 Helena, MT 59620-0901

Dear Bob:

Enclosed you will find the Rhône Poulenc 1995 State Fluoride in Forage Report. No exceedances were recorded during the 1995 grazing season. This report satisfies all requirements in Attachment 1 of Permit 1636-03. Rhône Poulenc will continue fluoride in forage sampling in 1996.

In the event operations that contribute to fluoride emissions cease in 1996, Rhône Poulenc will discontinue the monitoring for the 1997 season. Because this is subject to your review and approval, I would appreciate any feedback regarding discontinuing fluoride in vegetation monitoring for 1997.

Please call if you have any questions.

Sincerely,

Rhône Poulenc

North American Chemicals Company

F. C. Balentine

HS&E Supervisor

cc:

Lisa Palmer

File

RHÔNE-POULENC BASIC CHEMICALS CO.

P.O. BOX 3146 BUTTE, MT 59702 TEL: (406) 782-1215 FAX: (406) 782-4498

July 18, 1995

Patricia D. Hull U.S. EPA Region VIII 999 18TH Street Suite 500 Denver, Colorado 80202-2466

Dear Ms. Hull:

In accordance with the National Emission Standards for Radionuclide Emissions for Elemental Phosphorus Plants, Subpart K, item 61.123 (f); Rhône-Poulenc Basic Chemicals Company is furnishing the following written report for the annual radionuclide emission testing at the Silver Bow Plant. The required annual testing was conducted on May 17th and 18th, 1995 on the no. 1 and no. 2 kilns. Each emission test met the requirements of 61.123(d) in Subpart K. As required by 61.123(f), Rhône-Poulenc is providing the following information:

1. Name of Facility:

Rhône-Poulenc Basic Chemicals Company Silver Bow Plant Silver Bow, Montana 59750

2. Person responsible for the operation of the Plant:

Mr. Bruce Pallante - Plant Manager

Person preparing report:

Mr. Cam Balentine - HS&E Supervisor

3. Effluent controls for kilns:

A. No. 1 Kiln

Control Equipment	Estimated Efficiency
Six Buell Cyclones	92%
Calvert Collision Scrubber	99%

B. No. 2 Kiln

Control Equipment	<u>Estimated</u> <u>Efficiency</u>
Six Buell Cyclones	92%
60 ft. X 18 ft. Spray Tower	97%
Calvert Collision Scrubber	99%

4. Testing results:

The Testing results and the results of each sampling run are included in the enclosed EEMC Test Report. The testing results show that the radionuclide emission rates for the no. 1 and no. 2 kilns are 0.0027 curies/year and 0.0089 curies/year, respectively.

5. The values used to calculate the test results are included in the enclosed EEMC Test Report. The production rates used in the calculations were based on the production rates of the kilns during the actual sampling period and then multiplied by 24 hours/day and 365 days/year to calculate the maximum annual emissions.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

F.C. Balentine HS&E Supervisor

Rhône Poulenc Chemicals Company

State Forage Report

Silver Bow Plant

1995

cc: State AQB
C. Balentine
File

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I	Topographic Map with Site Locations	
П	1995 Fluoride Data	1-3
Ш	Pollution Trend Analysis	4-14
IV	Data Collection Efficiency	i5
V	Missing Data	15
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VIII	AIRS Format.	

See 1991 State Forage Report for Topographic Map

II 1995 Fluoride Data

The following is a hard copy of sample data along with monthly and grazing season means for fluoride-in-forage per site. Values designated as N/A indicate no monthly average or grazing season average was calculated. N/D designates samples with values below the method detection limit of 0.04 ug/g. The Ueland plots #1, #2, #3 and #13 have no grazing season averages because livestock were not grazing at the plot location long enough to satisfy the specific requirements in the regulation to constitute a grazing season.

RHONE-POULENC CHEMICALS COMPANY STATE FORAGE SAMPLING PROGRAM SILVER BOW PLANT 1995

Plot	. 0	Sample	Sample	Fluoride	Monthly	Seasonal	
Number		Date	Number	ug/g	Average	Average	
#17	- ERICKSON-	5/30/95		14	N/A		
		6/16/95	SS004-95	11	12		
		6/26/95	SS009-95	15	13		
		7/17/95	SS014-95	7	21/4		
		7/27/95	NS SSOOT OF	1.1	N/A		
		8/8/95	SS021-95	11	17		
		8/24/95	SS027-95	22	17		
		9/13/95	NS		3.T/A	12	
		9/26/95	NS		N/A	13	
#6	HILDERMAN	5/30/95	NS		N/A		
		6/16/95	SS005-95	16			
		6/26/95	SS011-95	16	16		
		7/17/95	SS016-95	13		•	
		7/27/95	SS018-95	16	15		
		8/8/95	SS023-95	16			1
		8/24/95	SS028-95	27	22		. 🐛
		9/13/95	SS032-95	18			
		9/26/95	SS037-95	27	23	19	
#7	TAMIETTI	5/30/95	SS002-95	20	N/A		
		6/16/95	SS006-95	16			
		6/26/95	SS010-95	17	17		
		7/17/95	SS015-95	13			
		7/27/95	SS019-95	28	21		
		8/8/95	SS024-95	22			
		8/24/95	SS029-95	42	32		
		9/13/95	SS033-95	47			
		9/26/95	SS038-95	46	47	28	
[‡] 16	CRADDOCK	5/30/95	SS003-95	27	N/A		
		6/16/95	SS007-95	16			
		6/26/95	SS012-95	21	19		
		7/17/95	NS				
	-	7/27/95	SS020-95	11	N/A		1
		8/8/95	SS025-95	21			
		8/24/95	SS030-95	26	24		.,
		9/13/95	SS034-95	25			
		9/26/95	SS039-95	34	30	23	2/8/96
			0				

Plot Numbe	r Owner	Sample Date	Sample Number	Fluoride ug/g	Monthly Average	Seasonal Average
#15	PETERSON	5/30/95	NS		N/A	
		6/16/95	SS08-95	16		
······		6/26/95	SS013-95	6	11	
		7/17/95	SS017-95	15		
		7/27/95	NS		N/A	
		8/8/95	SS026-95	18		
		8/24/95	SS031-95	16	17	•
		9/13/95	SS035-95	20		
		9/26/95	NS		N/A	15
#1	UELAND	*		-	N/A	N/A
#2	UELAND	*		-	N/A	N/A
#3	UELAND	9/26/95	SS036-95	65	N/A	N/A
#13	UELAND	*	•	-	N/A	N/A

ND: Fluoride value was not detected.

N/A: No average calculated

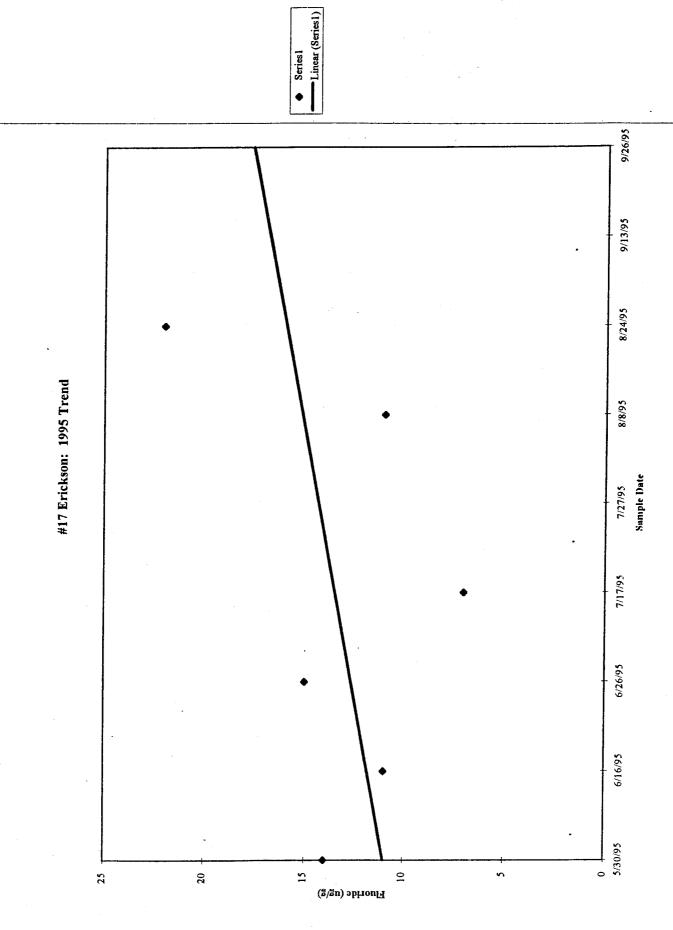
NS: No sample collected.

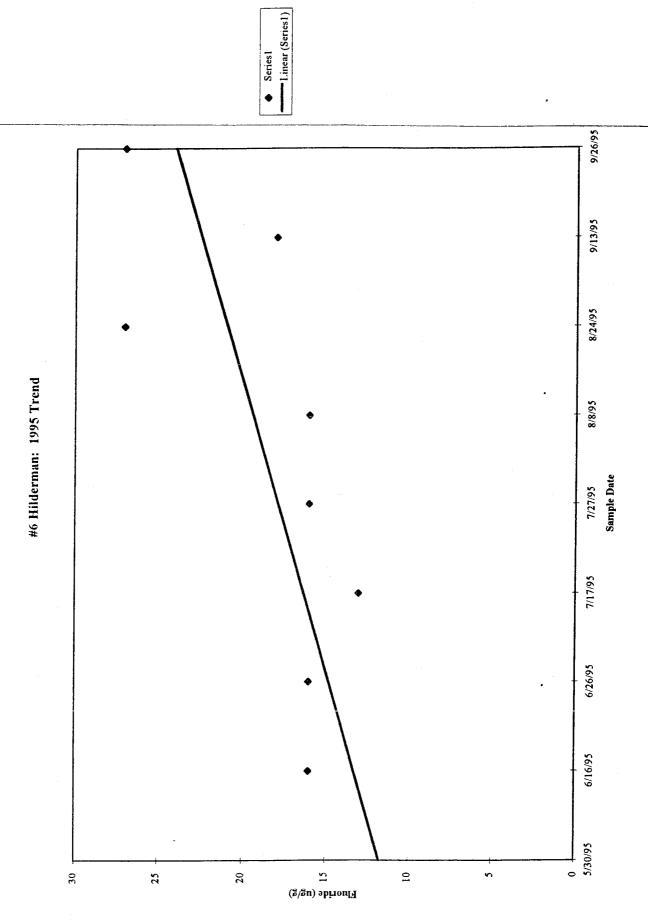
^{*:} These sights were not sampled because no grazing occurred at the time of collection.

III Pollution Trend Analysis

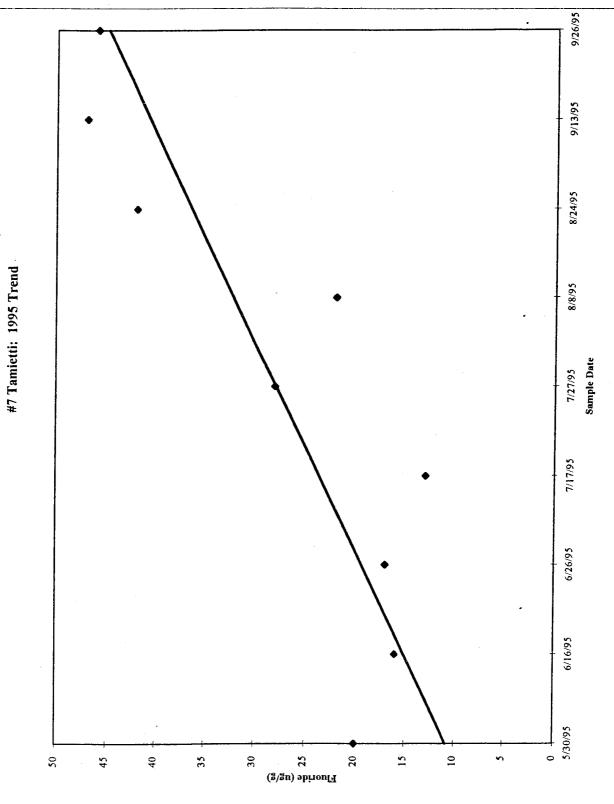
Each graph shows the trend for every plot on the 1995 sampling schedule. The Ueland plots have no trend analysis due to lack of samples collected over the year because no cattle were grazing in the area or weather conditions prevented sampling.

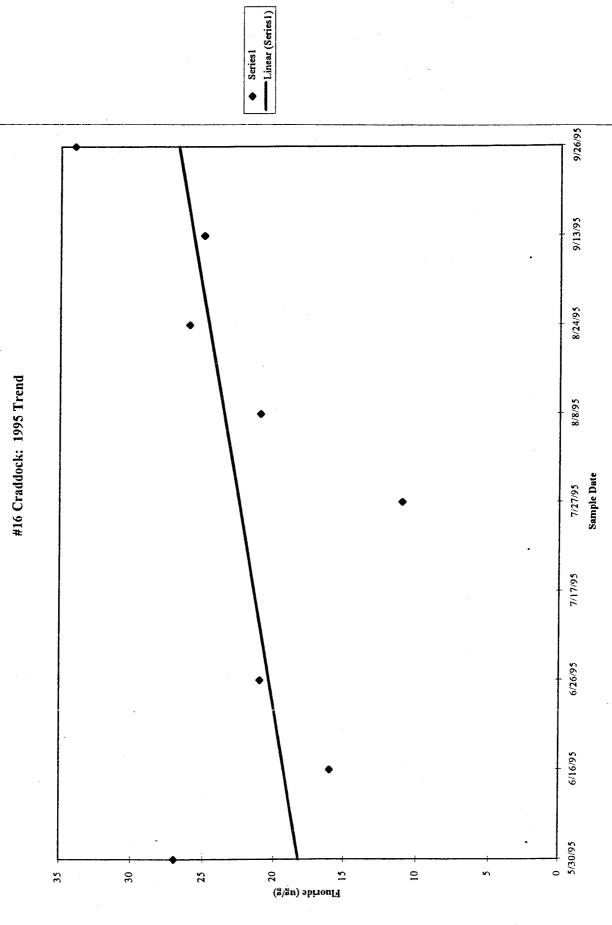
The second set of graphs illustrate a four year trend analysis for each plot. The years included are 1992, 1993, 1994, and 1995. The graphs depict monthly average fluoride in forage concentration versus the month sampled. The months that have no values indicate no monthly average was calculated. Justification is summarized in section II.

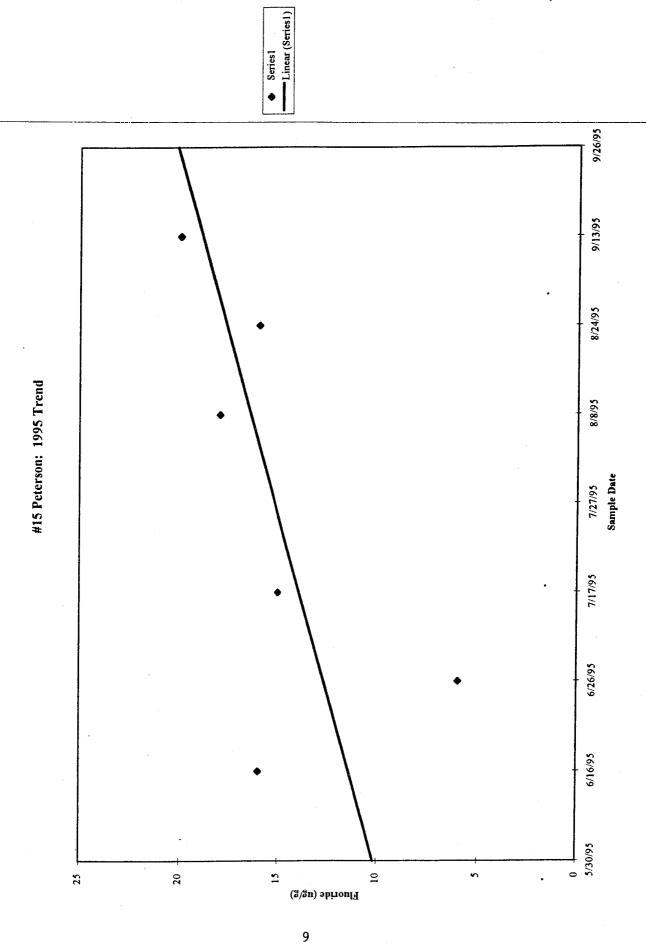


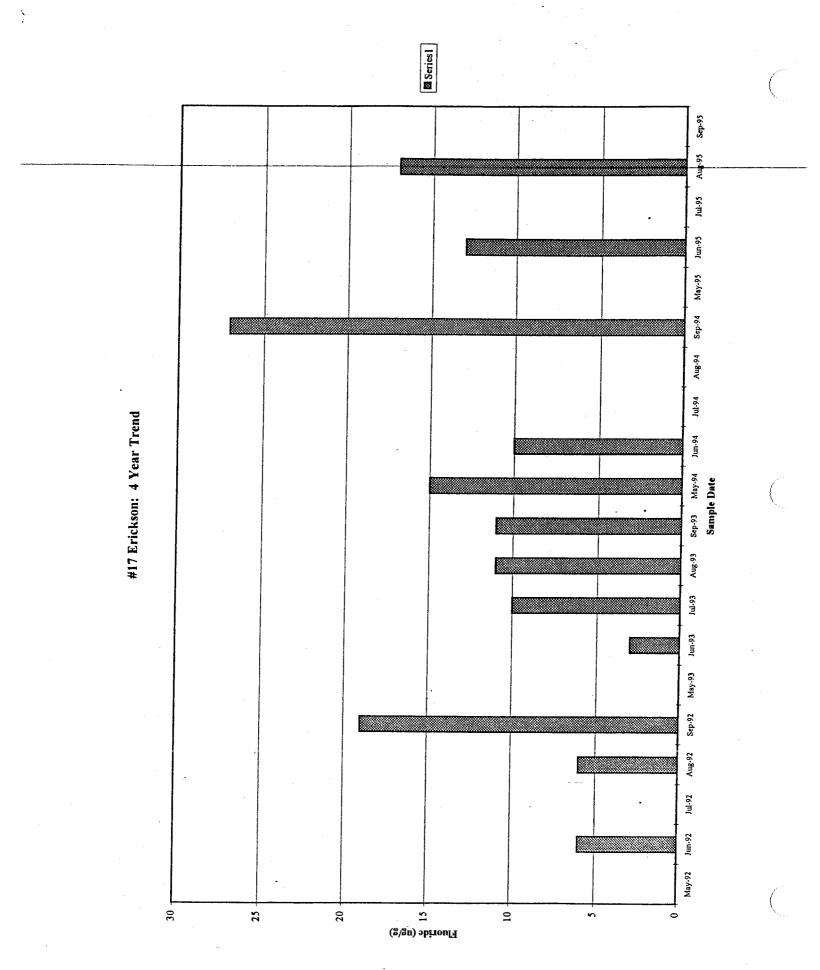


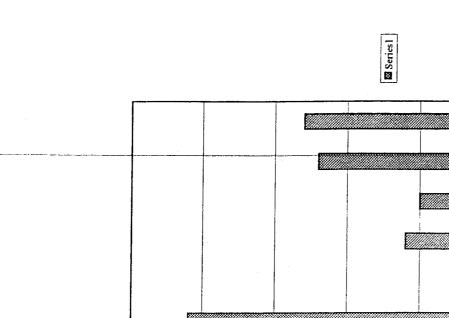


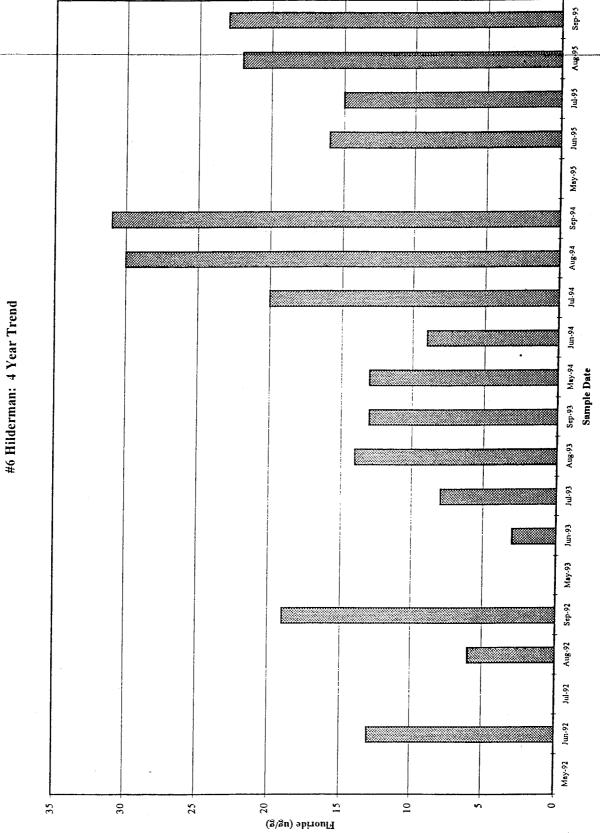


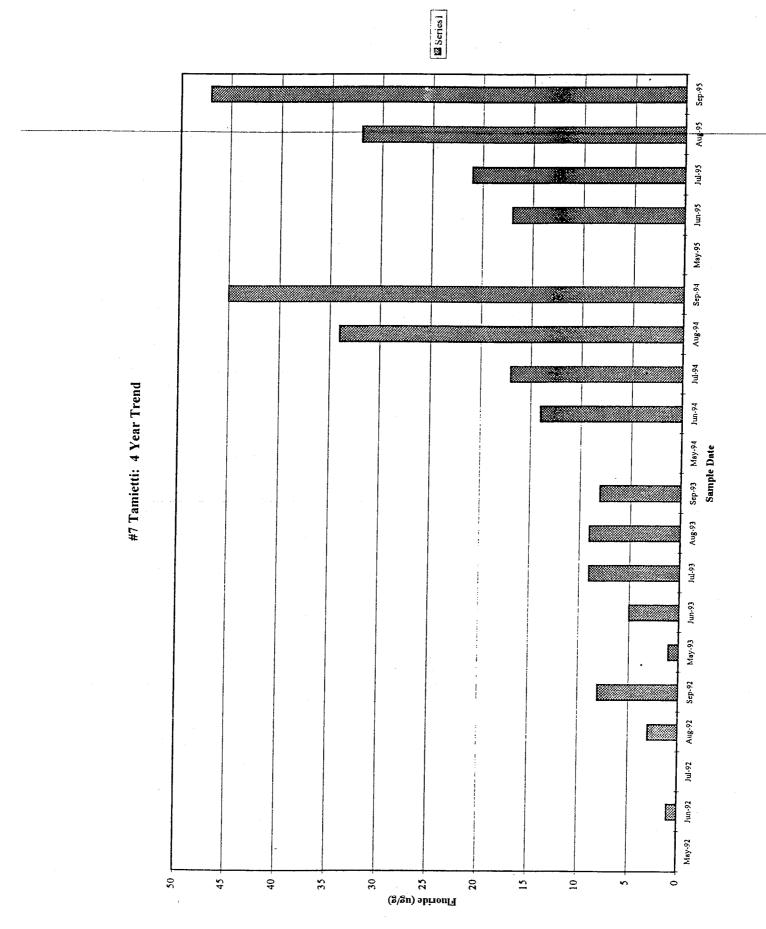




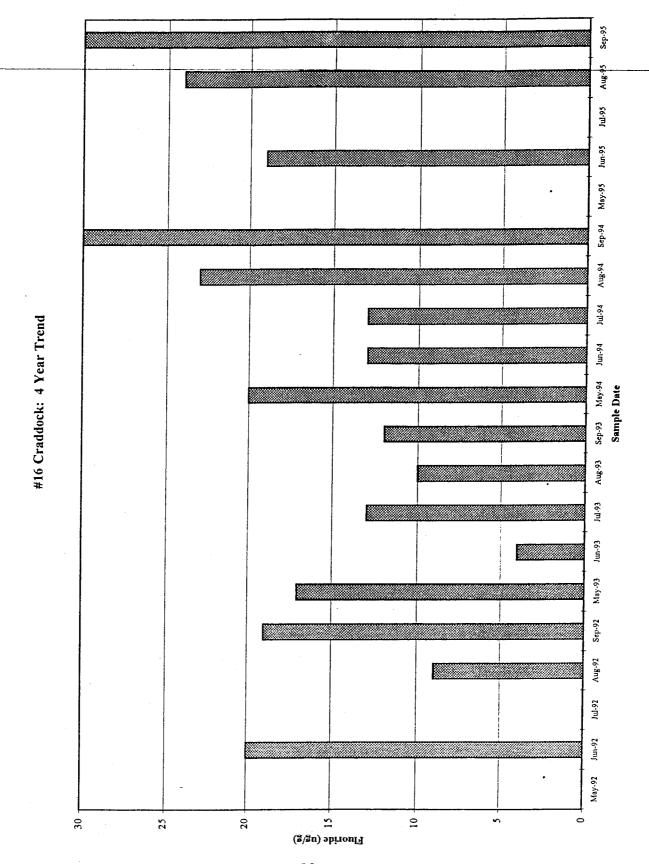


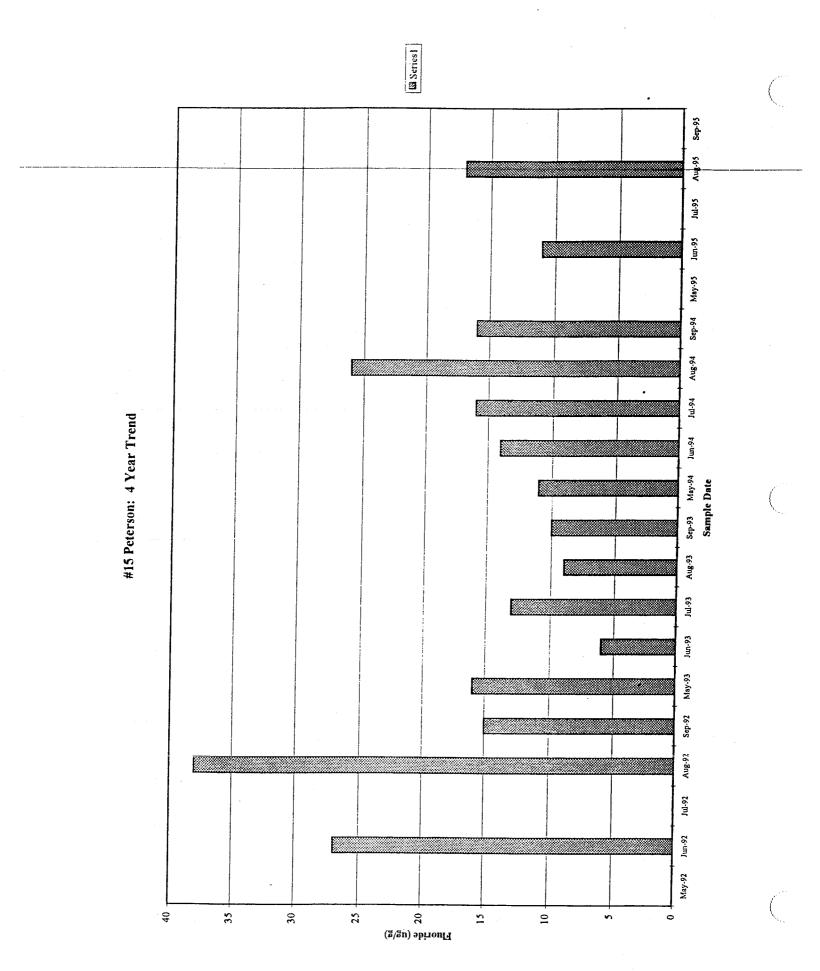












IV <u>Data Collection Efficiency</u>

During the course of the grazing season no samples were lost. All sites were sampled according to the sampling procedure and no samples were lost on site or in the laboratory. This signifies 100% efficiency for the data collected.

V Missing Data

No data is missing for the year 1995.

VI Precision, Accuracy and Calibration

All analysis sets include the fluoride values for the samples with 100 % duplicates. The internal reference samples are vegetation samples that were collected at various locations and evaluated to determine an average value and standard deviation. A new average and standard deviation are calculated yearly to monitor any fluoride change over time. These samples are analyzed with each run to monitor the reproducibility of the instrument readings. Standard Reference Material 2695 fluoride in vegetation standards are also prepared and analyzed with every sample set. The standards are certified to have concentrations of 277 +/- 27 ppm and 64 +/- 8.4 ppm fluoride concentrations.

Data values are accepted or rejected based on the following criteria:

- 1. The SRM samples are within one standard deviation from the average.
- 2. The duplicates are within +/- 10 percent of each other.
- 3. The reproducibility of the internal reference samples.

L. Palmer 2/96

VII

Exceedances

No exceedances were encountered during the year as stated in section 16.8.813 of the State of Montana Air Quality Rules for monthly or seasonal averages.

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES STATE OF HONTAKA

AIR QUALITY BUREAU AIRS DAILT DATA FORM

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Analysts

