

Chapter 5 — Consultation with Others

Agencies, companies, and organizations consulted by BIA, EPA, and USACE include the following:

- Bearpaw, Inc.
- City of Makoti
- City of Plaza
- Enbridge Pipelines (North Dakota) LLC
- GeoTrans, Inc.
- Indian Health Services
- North Dakota Department of Health
- North Dakota Department of Transportation
- North Dakota Parks and Recreation Department,
- North Dakota Heritage Inventory
- State Historical Society of North Dakota
- Triad Project Corporation
- United States Fish and Wildlife Service
- Water Supply, Inc.
- Agency for Toxic Substances and Disease Registry (ATSDR)

For additional information regarding BIA, EPA, cooperating agencies and the MHA Nation, please see Section 1.2, NEPA Process and Decision Making, of this document. Information on public participation can be found in Section 2.1, Public Participation, and in Chapter 7 regarding distribution of the DEIS.

Chapter 6 — Preparers and Contributors

BIA and EPA are Co-Lead agencies with decision-making authority over the EIS documents, including the EIS. This document was prepared by BIA, EPA and Greystone Environmental Consultants, Inc., (DEIS contractor), and Booz Allen Hamilton (contractor). Representatives from the cooperating agencies contributed sections of the EIS and participated in the NEPA process. Table 6-1 through 6-6 present the names of individuals and their area or areas of responsibility from BIA, EPA, USACE, the MHA Nation and Greystone and Booz Allen Hamilton.

Table 6-1 U.S. Department of Interior, Bureau of Indian Affairs

Name	Project Responsibility
<i>Great Plains Regional Office</i>	
Diane Mann-Klager	Project Team Leader: NEPA and Fish and Wildlife
Roy Pulfrey	Irrigation Engineer, NEPA
Darin Larson	Hydrologist, engineer
Paul Hofmann	Hydrologist
Carla Clark	Realty Specialist
<i>Fort Berthold Agency</i>	
Howard Beamer	Superintendent
Mary Fredericks	Natural Resources

Table 6-2 U.S. Environmental Protection Agency, Region 8

Name	Project Responsibility
Monica Morales	Project Team Leader DEIS and Air Quality
Steve Wharton	Project Team Leader FEIS and Toxicology
Dana Allen	NEPA – EIS
Bob Brobst	NPDES
Bruce Kent	NPDES
Mike Wireman	Ground water
Tom Aalto	RCRA
Felix Flechas	RCRA
Jean Belille	Environmental Justice
Dave Ruitter	Wetlands
D.J.Law	Air
Kevin Golden	Air Modeling

Table 6-3 U.S. Army Corps of Engineers

Name	Project Responsibility
Daniel Cimarosti	Project Manager
Toni Erhardt	CWA Section 404

Table 6-4 MHA Nation

Name	Project Responsibility
Horace Pipe	Project Manager
Patty Jo Thomas	Environmental Division
Burton Bell	
Jared Wurtz	
Harlan Dean	
Elton Spotted Horse	
Todd Hall	Fish and Game Division
Fred Poitra	
Elgin Crows Breast	Cultural Division
Calvin Grinnell	
Damon Williams	Legal Department
Jenny Fyton	

Table 6-5 Greystone — Third-party Contractors

Name	Project Responsibility	Education
Jerry Koblitiz	Principal-in-charge, Water Resources	B.S. Wildlife Management 32 years of experience
David Cameron	Project Manager	B.A. Biology M.S. Terrestrial Ecology 26 years of experience
Jack Cearley	Hazardous and Non-hazardous Wastes	Ph.D. Environmental Health, Aquatic Ecology/Toxicity M.S. Environmental Health B.S. Biology and Geology 34 years of experience
Gordon Frisbie	Air Quality	M.S. Environmental Engineering B.S. Wildlife and Fisheries Biology 17 years of experience
Ryan Henning	Vegetation, Wildlife, Special-status species, Soils, Water Resources	B.S. Biology 11 years of experience
Mike Holle	Geographic Information Systems (GIS)	B.S. Natural Resource Science Minor in Spatial Database Management Systems 9 years of experience
Selina Koler	Soils	M.S. Restoration Ecology B.S. Natural Resource Management 4 years of experience
Carl Späth	Cultural Resources	Ph.D. Anthropology M.A. Anthropology B.A. Anthropology 32 years of experience

Name	Project Responsibility	Education
Lisa Welch	Socioeconomics, Aesthetics, Land Use, Recreation, Transportation	B.S. Earth Science 12 years of experience

Table 6-6 Booze Allen Hamilton — FEIS Contractors

Name	Project Responsibility	Education
Mary LeMier	Project Manager	B.A. Environmental Studies 8 years experience
Jennifer Nystrom	Deputy Project Manager, Ecological Risk Assessor	M.S. Ecology and Evolutionary Biology B.A. Evolutionary and Environmental Biology 10 years experience
Lisa McDonald	Environmental Justice, Socio-economic Specialist	Ph.D. Mineral Economics 14 years experience
John Belin	Human Health Risk Assessor	M.S. Environmental Health Science B.S. Biology 10 years experience
Gary Pascoe	Human Health Risk Assessor	Ph.D., Toxicology B.A., Biology 25 years experience
Kathy Rogovin	Human Health Risk Assessor	M.S. Toxicology, B.S. Zoology 13 years experience
Jean Tate	NEPA Specialist	Ph.D. Ecology, M.S. Zoology B.S. Biology 30 years experience
Eric Hurley	Environmental Justice, Socio-economic Specialist	M.S and B.A. Economics 4 years experience
Holly Bender	Environmental Justice, Socio-economic Specialist	M.S. and PhD in Mineral Economics B.A. Economics and Political Science 13 years experience

Table 6-6 GeoTrans — Ground Water Contractors

Name	Project Responsibility
Kevin Lincicum, PG –	Senior Project Hydrologist
Mike Noel PG-	Principal Hydrologist

Chapter 7 — Distribution of the Draft EIS

The following list identifies the officials, agencies, and organizations to whom the Draft EIS was sent. Approximately 50 copies of the DEIS were mailed out to individuals. The DEIS was published in both hard copy and on CD-ROM. The DEIS and technical reports were also published on EPA Region's website and linked to the Three Affiliated Tribes website.

Copies of the DEIS were available for public review at each of the Three Affiliated Tribes Segment Offices, in Makoti, at BIA's Offices in New Town, ND and Aberdeen, SD and at EPA's library in Denver, CO.

Publicly Available DEIS

Twin Butte Segment Office	Halliday, ND
White Shield Segment Office	Roseglen, ND
Parshall Segment Office	Parshall, ND
Mandaree Segment Office	Mandaree, ND
Four Bears Segment Office	New Town, ND
North Segment Office	New Town, ND
Three Affiliated Tribes, Legal Department and Office of the Secretary	New Town, ND
Rensch Garage	Makoti, ND
BIA, Fort Berthold Agency	New Town, ND
BIA Regional Office	Aberdeen, SD
EPA Region 8 Library	Denver, CO

Federal, Tribal, and State Officials

Tex Hall, Three Affiliated Tribes Chairman at time of DEIS distribution

John Hoeven, North Dakota Governor

Federal Agencies

Department of the Interior

Bureau of Indian Affairs – Central Office, Great Plains Regional Office, and Fort Berthold Agency

Indian Health Service – Aberdeen Area and Fort Berthold

Environmental Protection Agency, Region 8 and Headquarters

U.S. Army Corps of Engineers, North Dakota Regulatory Office

U.S. Fish and Wildlife Service, North Dakota Ecological Services

Natural Resources Conservation Service

Farm Service Agency

Indian Health Service

Economic Development Administration

Agency for Toxic Substances and Disease Registry (ATSDR)

Tribal Agencies

Three Affiliated Tribes, Business Council:
Three Affiliated Tribes, Natural Resources Department
Three Affiliated Tribes, Environmental Department
Three Affiliated Tribes, Game and Fish Department
Three Affiliated Tribes, Legal Department

State Agencies

North Dakota, State Water Commission
North Dakota Department of Health
North Dakota Department of Environmental Quality
North Dakota, Department of Transportation

Local Agencies

Ward County, Executive Director and Roger Kluck
Makoti Development Board
Ward County, Farm Service Agency
Mountrail County, Farm Service Agency

Organizations/Companies

Indigenous Environmental Network
Honor the Earth
The Environmental Awareness Committee
Triad
Natural Resources Defense Council
North West Venture Communities
Verendrye Electric Cooperative
High Plains Consortium, Inc.

Chapter 8 — Glossary

Alkylation – A process using sulfuric or hydrofluoric acid as a catalyst to combine olefins (usually butylene) and isobutane to produce a high-octane product known as alkylate.

Aromatics – The group of hydrocarbon products that has a sweet smell, including benzene and toluene. They provide feedstock for many of the main petrochemical processes and improve the octane rating of gasoline.

Benzene – An unsaturated, six-carbon ring, basic aromatic compound. It is a colorless liquid hydrocarbon.

Barrel of oil – Measurements that equal a barrel of oil include 42 U.S. gallons, 35 Imperial gallons, and 159 liters.

Bottoms – Tower bottoms are residue remaining in a distillation unit after the highest boiling-point material to be distilled has been removed. Tank bottoms are the heavy materials that accumulate in the bottom of storage tanks, usually comprised of oil, water, and foreign matter.

Catalyst – A material that aids or promotes a chemical reaction between other substances but does not react itself. Catalysts increase the speeds of reactions and can provide control by increasing desirable reactions and decreasing undesirable reactions.

Catalytic hydrocracking – A high-pressure petroleum refining process in which molecules too large and complex for use in gasoline have hydrogen added to them before being cracked into smaller, more suitable molecules.

Cetane number – A measure of a fuel's ignition delay. This is the time between the start of injection and start of combustion (ignition) of the fuel. In a particular diesel engine, higher cetane fuels will have shorter ignition delay periods than lower cetane fuels. Diesel fuels with a cetane number lower than minimum requirements for an engine can cause the engine to operate roughly make it more difficult to start, especially in cold weather or at high altitudes.

Cracking – The breaking of large (higher boiling point) hydrocarbon molecules into smaller (lower boiling point) ones.

Debutanizer – A fractionating column used to remove butane and lighter components from liquid streams.

Dehydrogenation – A reaction in which hydrogen atoms are eliminated from a molecule. Dehydrogenation is used to convert ethane, propane, and butane into olefins (ethylene, propylene, and butenes).

Distillate fuel oil – Products of refinery distillation sometimes referred to as middle distillates — includes kerosene, diesel fuel, and home heating oil.

Distillation – The separation of different petroleum components by selectively heating, vaporizing, and condensing compounds based on their different vapor pressures.

Dry gas – Gas containing no water vapor.

Feedstock – Stock from which material is taken to be fed (charged) into a processing unit.

Flaring – The controlled and safe burning of gas that cannot be used for commercial or technical reasons.

Fractionation – The process whereby saturated hydrocarbons from are separated into distinct parts or “factions”, such as propane, butane, and ethane.

Fuel gas – Refinery gas used for heating.

Gasoline – A blend of naphthas and other refinery products with sufficiently high octane and other desirable characteristics to be suitable for use as fuel in internal combustion engines.

Grass roots refinery – A refinery built at a new location all at once from the ground up. This does not include additions or refurbishments made at an existing refinery.

Grub – To clear by digging up roots and stumps

Heat exchanger – Equipment to transfer heat between two flowing streams of different temperatures. Heat is transferred between liquids or liquids and gases through a tubular wall.

Hydrocarbons – Organic compounds consist of only hydrogen and carbon atoms. In general, the densities, boiling points, and freezing points of these compounds increase as their molecular weights increase. The smallest molecules of hydrocarbons are gaseous. The largest are solids.

Hydrodesulfurization – A catalytic process in which the principal purpose is to remove sulfur from petroleum fractions in the presence of hydrogen.

Hydrogenation – The chemical addition of hydrogen to a material in the presence of a catalyst.

Isomerization – A reaction that catalytically converts straight-chain hydrocarbon molecules into branched-chain molecules of substantially higher octane number. The reaction rearranges the carbon skeleton of a molecule without adding or removing anything from the original material.

Iso-octane – A hydrocarbon molecule (2,2,4-trimethylpentane) with excellent antiknock characteristics on which the octane number of 100 is based.

Mercaptans – Strong-smelling compounds of carbon, hydrogen, and sulfur found in gas and oil. They are sometimes added to natural gas for safety reasons.

Naphtha – A general term used for low boiling hydrocarbon fractions that are a major component of gasoline. Aliphatic naphtha refers to those naphthas containing less than 0.1 percent benzene and with carbon numbers from C3 through C16. Aromatic naphthas have carbon numbers from C6 through C16 and contain significant quantities of aromatic hydrocarbons such as benzene (>0.1 percent), toluene, and xylene.

Octane rating – A classification of gasoline according to its anti-knock properties. “Knocking” or “pinking” is a tendency for gasoline to detonate under compression in an engine instead of burning evenly. The higher the octane number, the less prone the fuel is to knocking.

Olefins – The group of hydrocarbons known as alkenes. In a refinery, olefin units produce ethylene and propylene to make polyethylene and polypropylene used by the petrochemical industry to make plastics, synthetic fibers, and adhesives.

Paraffins – Alkane hydrocarbons, such as methane, ethane, propane, butane, and pentane.

Polymerisation – The bonding of two or more simple molecules under heat and pressure to form larger molecules. In petrochemical production, polymer hydrocarbons are used to make plastics.

Reformat – An upgraded naphtha resulting from catalytic or thermal reforming.

Reforming – The thermal or catalytic conversion of petroleum naphtha into more volatile products of higher octane number. It represents the total effect of numerous simultaneous reactions, such as cracking, polymerization, dehydrogenation, and isomerization.

Saturated hydrocarbon – A hydrocarbon that has used all of its bonding electrons to make single bonds to other atoms. It can not make additional bonds without cutting off part of the existing molecule.

Sour crude – Crude oil with a comparatively high sulfur content, 0.5 percent by weight and higher.

Sour gas – Natural gas that contains corrosive, sulfur-bearing compounds, such as hydrogen sulfide and mercaptans.

Sweet crude – Crude oil with a comparatively low sulfur content, less than 0.5 percent.

Unsaturated hydrocarbon – A hydrocarbon that contains double or triple bonds between certain atoms. These bonds may be broken and new atoms attached without disrupting the existing skeleton of the hydrocarbon.

Wet gas – Natural gas containing condensable hydrocarbons.

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