

FY2016

HAINES PIPELINE

Army Defense Environmental Restoration Program

Installation Action Plan

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Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multiyear cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern, and proposes a comprehensive, installation-wide approach, along with the costs and schedules associated with conducting investigations and taking the necessary remedial actions (RA).

In an effort to coordinate planning information between the restoration manager, the Installation Management Command (IMCOM) - Pacific, the US Army Environmental Command (USAEC), the executing agencies, the regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and tentative budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is; therefore, subject to change.

Acronyms

ADEC	Alaska Department of Environmental Conservation
AEDB-R	Army Environmental Database - Restoration
AS	Air Sparging
AST	Aboveground Storage Tank
BLM	Bureau of Land Management
CANOL	Canadian Oil
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLOSES	Cleanup Operations and Site Exit Strategies
COPC	Contaminants of Potential Concern
CRREL	US Army Cold Regions Research and Engineering Laboratory
DD	Decision Document
DRO	Diesel Range Organic
FRA	Final Remedial Action
FS	Feasibility Study
FUDS	Formerly Used Defense Sites
FWA	Fort Wainwright
FY	Fiscal Year
GRO	Gasoline Range Organic
HFT	Haines Fuel Terminal
HVE	High-Vacuum Extraction
IAP	Installation Action Plan
IMCOM	Installation Management Command
IRA	Interim Remedial Action
IRP	Installation Restoration Program
LNAPL	Light Non-Aqueous Phase Liquid
LTM	Long-Term Management
LUC	Land Use Control
N/A	Not Applicable
NPL	National Priorities List
ORC	Oxygen Release Compound
PA	Preliminary Assessment
PBC	Performance-Based Contract
PCB	Polychlorinated Biphenyl
POL	Petroleum, Oil, and Lubricants
RA	Remedial Action
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operation)
RAB	Restoration Advisory Board
RC	Response Complete
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
SI	Site Inspection
TAPP	Technical Assistance for Public Participation
TFT	Tok Fuel Terminal

Acronyms

TRC	Technical Review Committee
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USAG	US Army Garrison
USPACEHEA	US Army Pacific Environmental Health Engineering Agency (currently USACHPPM)
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Installation Information

Installation Locale

Installation Size (Acreage): 455

City: Haines, Tok, Outside Delta Junction, sites between Fairbanks and Haines (USA only)

County: Fairbanks, Delta Junction, Borough

State: Alaska

Other Locale Information

The Haines-Fairbanks Pipeline ran along a route from Haines, Alaska to the terminal at Fort Wainwright in Fairbanks, Alaska, passing through Haines Junction, the Yukon Territory and along the Alaska Highway through Tok, Big Delta. The pipeline was built to supply fuel to military installations in Alaska. It consisted of an 8-inch multiproduct line with six pumping stations, including Tok, Haines, and Sears Creek. A significant portion of the line was installed above ground. In 1972 the pipeline was decommissioned with a majority of the pipe removed between 1990 and 1991 when the Haines Fuel Terminal (HFT) was closed.

All buildings and tanks have been demolished at the HFT and Tok Fuel Terminal (TFT). Most of the pipeline between HFT and Fort Wainwright has been transferred to the Formerly Used Defense Sites (FUDS) program.

Installation Mission

The installation is on US Army property and was in support of the US Army. Alaska's primary mission is to provide ready combat forces to deploy rapidly in support of worldwide joint military operations, crisis response, and peacetime engagements, to maintain a quality of life and force protection platform, and to serve as the Joint Force Land Component in Alaska.

Lead Organization

IMCOM

Lead Executing Agencies for Installation

US Army Garrison (USAG) Fort Wainwright (FWA) Environmental Division

Regulator Participation

State Alaska Department of Environmental Conservation (ADEC)

National Priorities List (NPL) Status

HAINES PIPELINE is not on the NPL

Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status

RAB established 199702

Installation Program Summaries

IRP

Primary Contaminants of Concern: Light non-aqueous phase liquids (LNAPL), Metals, Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Affected Media of Concern: Groundwater, Soil, Surface Water

CR

Primary Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Affected Media of Concern: Groundwater, Soil

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Planned	201609	201709	2017

5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
Sears Creek Excavation and Landspreading	HNS-03
Tok Fuel Terminal Removal	HNS-04

Land Use Control (LUC) Summary

LUC Title: Fencing and Signs

Site(s): HNS-04

ROD/DD Title: Tok Fuel Terminal Removal

Location of LUC

Tok Fuel Terminal

Land Use Restriction: Restrict land use - Mitigation area(s) protection

Types of Engineering Controls: Fences, Markers, Signs

Types of Institutional Controls: Dig Permits, Restrictions on Groundwater Withdrawal, Restrictions on land use

Date in Place: 201910

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: 201910

LUC Enforcement: Annual Inspections

Contaminants: PETROLEUM HYDROCARBON, VOC

Additional Information

N/A

Cleanup Program Summary

Installation Historic Activity

The Haines-Fairbanks Pipeline was built in the mid-1950s to replace the western portion of the Canadian Oil (CANOL) pipeline. The CANOL pipeline was built during the 1940s to carry oil from the Norman Wells oil field to a refinery in Whitehorse, British Columbia. In October 1955, the Haines-Fairbanks Pipeline was completed by independent contractors from Canada and the United States. The pipeline was constructed from 8-inch diameter steel pipe. Soon after completion, the US military took possession of the pipeline. Fuel was shipped to the POL terminal in Haines and was then transported 626 miles to Fairbanks via the pipeline. The pipeline operated for 17 years and ended operation in 1971 when the pipeline was purged.

In 1982, the Canadian government took control of the portion of the pipeline that was located in Canada. In 1991, the majority of the pipeline was removed from the right-of-way. Several pump stations were built along the pipeline. They were placed at Haines (Alaska), Border (British Columbia), Haines Junction (Yukon), Donjek (Yukon), and Tok (Alaska). When more throughputs were needed, six more pumping stations were built in Blanchard River, Destruction Bay, Beaver Creek, Lakeview, Sears Creek, and Timber. The Lakeview and Timber stations have been patented by the Bureau of Land Management (BLM) to the state of Alaska. Any further action on these two sites will be conducted under the FUDS program.

During the 17 years of the pipeline operation, there have been numerous leaks along the pipeline. In 1990, the USAG Alaska requested that the ADEC conduct an investigation of the HFT (HSN-01). In May 1990, the ADEC requested the US Environmental Protection Agency (USEPA) list HFT on the Comprehensive Environmental Response, Compensation, and Liability information system. In February 1991, a preliminary assessment (PA) was finalized, and the site inspection (SI) was completed in January 1996. The US Army, Alaska conducted an investigation of pathways for off-site migration identified in the 1996 SI and removed a fire burn pit outside the HFT fence line that was known to contribute to surface water contamination. Numerous RAs have been conducted at the HFT. These actions included soil removal, in situ treatment, and continued monitoring for off-site migration.

The TFT was the second largest pump station on the Haines Pipeline. The site covers approximately 50 acres and once housed large aboveground storage tanks (AST) and pipeline maintenance facilities. The terminal has undergone significant changes in recent years. During fiscal year (FY) 03 the buildings and tanks were removed.

One other area being investigated is the Haines Pipeline right-of-way. The Haines Pipeline investigation (HNS-02) consists of approximately 39 acres along the original pipeline right-of-way. The acreage includes multiple small sites along the pipeline that represent only a small amount of the actual pipeline right-of-way. The remainder of the acreage is being investigated under the Army FUDS program. The pump stations, including Sears Creek (HNS-03), were also part of the pipeline and consisted of facilities for boosting pumping capability and for pipeline maintenance. The Sears Creek Terminal, located between Tok and Haines, Alaska, is approximately 9.8 acres and houses generators, pumps, ASTs, pigging or clean stations, and a burn pit area.

Installation Program Cleanup Progress

IRP

Prior Year Progress: Completed the data gap analysis and awarded the follow-up contract for the remedial investigation (RI)/feasibility study (FS). The air sparging (AS) system was placed in care-taker status.

Future Plan of Action: Complete the RI at HSN-01 and complete the design and the excavation at HSN-03.

CR

Prior Year Progress: A data gap analysis and draft RI/FS was completed.

Future Plan of Action: The final RI/FS will be completed. The remaining pipeline in the Haines Terminal Facility is anticipated to be removed. Any contaminated soil encountered during the pipeline removal/abandonment will be cleaned up as much as practicable. Subsequent remedial efforts at the site will follow the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process due to the occurrence of CERCLA contaminants on site.

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IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 23/20

Installation Site Types with Future and/or Underway Phases

3 POL (Petroleum/Lubricants) Lines
(HNS-01, HNS-03, HNS-04)

Most Widespread Contaminants of Concern

Light non-aqueous phase liquids (LNAPL), Metals, Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern

Groundwater, Soil, Surface Water

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
HNS-09	LUTAK BURN PIT	FRA	REMOVAL	1997
HNS-07	TANK 100 & MANIFOLD BUILDING	FRA	IN-SITU SOIL TREATMENT	1998
PBC at Haines	PBC	FRA	REMOVAL	2010
HNS-01	HAINES FUEL TERMINAL (HFT)	IRA	AIR SPARGING	2014

Duration of IRP

Date of IRP Inception: 199002

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201910/201910

Date of IRP completion including Long Term Management (LTM): 201909

IRP Contamination Assessment

Contamination Assessment Overview

In 1992, an SI at HNS-01 was initiated which identified the presence of petroleum contaminants in soil, subsurface soils, surface water, and groundwater. The report, finalized in 1993, led to a follow-on SI investigation that was completed in January 1996 to determine if off-site migration of petroleum products was occurring.

In October 1996, a groundwater control system, using an oxygen release compound, was installed as a treatability study. Its goal was to determine if enhanced bioremediation could be used to slow or stop off-site migration of petroleum products. The results were inconclusive. During this same time frame, the Lutak fire burn pit, a major source of off-site surface water contamination, was excavated and the soil was thermally remediated.

In October 1997, a second treatability study was initiated with the installation of a high-vacuum extraction (HVE) system. The system was designed to remove and treat fuel-related compounds from groundwater and subsurface soil in the off-site migrating area. In December 2000, the system was deactivated due to inefficiency.

In October 2001, an AS treatability study was implemented to control volatile contaminant migration and meet the objective of minimizing potential off-site migration. This system is still on-site but in care taker status.

The TFT was a pumping and storage station for the Haines-Fairbanks Pipeline operated by the Department of Defense. The terminal was used to regulate the pipeline. The facility was taken out of service in 1973 and was leased by the Government Services Administration to BLM in 1979. The fuel terminal had a fuel storage capacity of approximately 275,000 barrels in 133 bulk fuel storage tanks. The truck fill rack was used to fill tanker trucks with diesel fuel and motor gasoline. The housing and support facilities included the manifold building, mainline pump building, a garage and shop used to maintain equipment, and a power generator facility. In February 2002, an RI at TFT was initiated to investigate and evaluate subsurface contamination. The purpose of the study was to determine the extent of soil and groundwater contamination on the terminal. In 2003, a limited RI was completed that indicated two contaminated areas. The generator building area (about 250 feet by 250 feet) has solvent and petroleum contamination in the soil and groundwater. The oil rack area (about 50 feet by 50 feet) has high levels of petroleum and lead in the soil.

Investigation of the other sites comprising the Haines Pipeline and Sears Creek was initiated through the US Army Pacific Environmental Health Engineering Agency (USAPACEHEA). A PA level survey was conducted at each of these sites and identified various contaminants that included volatile organic compounds (VOC) and residual petroleum compounds.

The RI/FS and a decision document (DD) were completed at site HNS-02 in January 2010 under the performance-based acquisition that was awarded in FY07.

Cleanup Exit Strategy

Complete the RI at HSN-01 and HSN-04. Complete the design and the excavation at HSN-03.

IRP Previous Studies

Year	Title	Author	Date
1957	Products Pipeline, Haines to Fairbanks, Alaska, Operating Manual	USACE-AK	MAY-1957
1977	Design, Construction and Operation	CRREL	FEB-1977
1983	Pollution Spill Control Plans Petroleum Division Terminal, Haines, Alaska	Office of the District Engineer	JAN-1983
1989	Haines Landfill, Work Plan and A-E Quality Control Plan, Haines, Alaska	Ecology and Environment, Inc.	SEP-1989
1990	US Army Tank Farm and POL Dock Facility Lutak Inlet	US Fish and Wildlife Service	MAR-1990
1993	Final Report, Fuel Terminal Site Investigation, Haines, Alaska	Harding Lawson Associates	JUN-1993
1994	Groundwater Monitoring, Spring 1994, Landfill, Haines (Fuel Terminal), Alaska	USACE - Alaska District	AUG-1994
	Summary of Non-Nature Activities in Klukshu Reserve Area	Champagne and Aishihik First Nations	SEP-1994
	Remedial Investigation/Risk Assessment, Data Quality Objectives and Conceptual Site Models, Haines Fuel Terminal, Haines, Alaska	Harding Lawson Associates	OCT-1994
1995	Toxic and Hazardous Materials Survey, Haines Fuel Terminal Investigation, Haines, Alaska	Harding Lawson Associates	JUL-1995
	Preliminary Environmental Assessment, Haines-Fairbanks Pipeline	UMA Engineering Ltd.	AUG-1995
	Chemical Data Report Haines Fuel Terminal Landfill Groundwater Monitoring, Spring 1995	Harding Lawson Associates	OCT-1995
	Chemical Data Report, Haines Fuel Terminal Existing Wells, Groundwater Monitoring, Spring 1995	Harding Lawson Associates	OCT-1995
1996	Site Investigation Report, Haines Fuel Terminal, Haines, Alaska	Harding Lawson Associates	JAN-1996
	Haines Fuel Terminal and Tank Farm, Public Meeting, Transcript of Proceedings, May 20, 1996	Jacobs Engineering Group, Inc.	MAY-1996
	Soil Vapor/Groundwater Survey Work Plan Haines Fuel Terminal	Total Environmental Restoration Contract	MAY-1996
	Conceptual Site Model	Radian International LLC	JUN-1996
	Summary Report, Haines Fuel Terminal and Tank Farm, Public Meeting, May 20, 1996, Haines, Alaska	Ecology and Environment, Inc	JUL-1996
	Final, Community Relations Plan, Haines Fuel Terminal, Alaska	Jacobs Engineering Group, Inc.	AUG-1996
	Background Information for Preliminary Design Meeting, Haines Fuel Terminal, Haines, Alaska	Radian International LLC	AUG-1996
	Screening Human Health Risk Assessment, Haines Fuel Terminal	Jacobs Engineering Group, Inc.	AUG-1996
	Chemical Data Report, Groundwater Study, Spring 1996, Fuel Terminal, Haines, Alaska	USACE, Alaska District, Geotechnical Branch	SEP-1996

IRP Previous Studies

1996	Title	Author	Date
	Haines Fuel Terminal and Tank Farm Documents Public Information	Jacobs Engineering Group, Inc.	OCT-1996
	Tier 1 Ecological Risk Assessment, Haines Fuel Terminal	Jacobs Engineering Group, Inc.	NOV-1996
	Geophysical Survey, Haines Fuel Terminal	Radian International LLC	NOV-1996
1997			
	Geophysical Survey of the Goo Pit Area, Haines Fuel Terminal, Haines, Alaska	CRREL	MAR-1997
	PCB Survey Report, Delivery Order 7, Haines and Seward, Alaska	CH2M Hill	JUN-1997
	30% Design, Tank 100 High-Vacuum Extraction (HVE) Treatability Study, Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	JUN-1997
	Total Environmental Restoration Contract for Marine Study at Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	JUL-1997
	Haines Fuel Terminal: Geophysical Investigation of a Suspected Landfill Area (Interim Draft Report)	D.E. Lawson, et al., US Army - CRREL	JUL-1997
	Final Work Plan for Multiple Studies, Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	AUG-1997
	90% Design, Tank 100 High-Vacuum Extraction (HVE) Treatability Study, Haines Fuel Terminal	Radian International LLC	AUG-1997
	Summary Report Lutak Burn Pit Removal Action, Goo Pit Capping, and Control Measures Treatment System Construction, Haines Fuel Terminal	Radian International LLC	OCT-1997
1998			
	Focused Feasibility Study, Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	APR-1998
	Tank 104 Oxygen Releasing Compound (ORC) Slurry Treatability Study Report	Jacobs Engineering Group, Inc.	APR-1998
	Final ORC Treatability Study Midpoint Evaluation Report	Jacobs Engineering Group, Inc.	APR-1998
	Cultural Resource Survey of the Haines Fuel Terminal, Haines, Alaska: Final Report on the Archaeology of Tanani Point	Northern Land Use Research, Inc.	APR-1998
	Information Repository Tank 100 High Vacuum Extraction Treatability Study Performance Evaluation Report Haines Fuel Terminal Haines, Alaska	Jacobs Engineering Group, Inc.	APR-1998
	Final, Soil Classification Study, Summary Report, Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	APR-1998
	Final, ORC Treatability Study, Midpoint Evaluation Report, Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	APR-1998
	Final, Tank 104, Oxygen Releasing Compound (ORC) Slurry Treatability Study Report, Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	APR-1998
	Tank 100 Baseline Study Summary Report, Haines Fuel Terminal	Radian International LLC	APR-1998
	Tank 100 High-Vacuum Extraction Treatability Study, Performance Evaluation Report, Haines Fuel Terminal	Radian International LLC	APR-1998
	PCB Annual Document Logs, 1997, Haines Fuel Terminal, Haines, Alaska	CH2M Hill	JUN-1998
	Final, Preliminary Evaluation of Remedial Alternatives, Haines Fuel Terminal, Haines, Alaska	Jacobs Engineering Group, Inc.	AUG-1998
	Final Site Assessment Work Plan, Haines Fuel Terminal "Goo Pit", Haines, Alaska	EMCON Alaska, Inc.	SEP-1998

IRP Previous Studies

1998	Title	Author	Date
	Final, Work Plan for Tank 107, Haines Fuel Terminal, Haines, Alaska	ENSR	DEC-1998
	Haines Fuel Terminal Marine Environmental Impact Evaluation	Environment Consultants	DEC-1998
1999	Environmental Assessment of Department of Defense Activities on Native Resources and Lands in Southeast Alaska	P.V.T. Consulting, LLC	JAN-1999
	Detecting and Mapping Petroleum-Contaminated Soils with DC Resistivity	CRREL	JAN-1999
	Using DC Resistivity to Find and Map Petroleum-Contaminated Soils at the Haines Fuel Terminal, Haines, Alaska, Final Interim Report	CRREL	APR-1999
	Chemical Data Report Sentry Wells Soil and Groundwater Study DLA Fuel Terminal, Haines, Alaska	USACE, Alaska District	APR-1999
	Risk Assessment Report, Haines Fuel Terminal (Draft)	Radian International	MAY-1999
	Final Haines Fuel Terminal Tank 107 Release Investigation Report, Haines, Alaska	ENSR	MAY-1999
	PCB Annual Document Logs, 1998, Haines Fuel Terminal, Haines, Alaska	CH2M Hill	JUN-1999
	Technical Memorandum, Tank 100 High-Vacuum Extraction System Manifold Building Expansion, Haines Fuel Terminal	Radian International	JUL-1999
	Technical Memorandum Pipeline Removal and Abandonment	Jacobs Engineering Group, Inc.	AUG-1999
	Geologic, Geophysical and Hydrogeologic Investigations of the Haines Fuel Terminal	CRREL	AUG-1999
	Chemical Data Report Landfill Wells Groundwater Monitoring DLA Fuel Terminal, Haines, Alaska	USACE, Alaska District	SEP-1999
	Chemical Data Report Spring 1999 Groundwater, Surface Water, and Sediment Study, DLA Fuel Terminal, Haines, Alaska	USACE, Alaska District	SEP-1999
	Technical Memorandum, Soil Stockpile Decommissioning, Haines Fuel Terminal, Haines, Alaska, Final	Jacobs Engineering Group, Inc.	OCT-1999
	Final Corrective Action Report, Haines Fuel Terminal "Goo Pit", Haines, Alaska	EMCON Alaska, Inc.	OCT-1999
	Technical Memorandum Soil Stockpile Decommissioning Haines Fuel Terminal Haines, Alaska	Jacobs Engineering Group, Inc.	OCT-1999
	Central Council Tlingit and Haida Indian Tribes of Alaska, Tanani Point Environmental Monitoring Project	Carson Dorn Inc.	OCT-1999
	Haines Groundwater Monitoring Report - Tank 107 (for July 1999)	ENSR	DEC-1999
	Offshore Seismic Reflection Profiling Near the Haines Fuel Terminal, Alaska	CRREL	DEC-1999
2000	Technical Memorandum Tank 100 High-Vacuum Extraction System Expansion Summary Report, Haines Fuel Terminal (Draft)	Radian International	JAN-2000
	Technical Memorandum, Pipeline and Soil Stockpile Removal Action, Haines Fuel Terminal, Haines, Alaska, Final	Jacobs Engineering Group, Inc.	MAR-2000
	Tanani Subsistence	Northern Land Use Research, Inc.	MAR-2000

IRP Previous Studies

2000

Title	Author	Date
Briefing Document for Meeting Between US Army and Chilkoot Indian Association	US Army	MAR-2000
A DC-Resistivity and Ground-Penetrating Radar Investigation near Tank 100, Haines Fuel Terminal	CRREL	MAR-2000
Chemical Data Report, Fall 1999 Groundwater, Surface Water, and Sediment Study, Haines Fuel Terminal	USACE - Alaska District	MAR-2000
Technical Memorandum Tank 100 High-Vacuum Extraction System Expansion Summary Report	Radian International LLC	APR-2000
Technical Memorandum, Tank 100 High-Vacuum Extraction System, Expansion Summary Report, Haines Fuel Terminal, Haines, Alaska, Final	Jacobs Engineering Group, Inc.	APR-2000
X-Ray Diffraction Analysis of Marine Mud Aquitard, Haines Fuel Terminal, Haines, Alaska	CRREL	JUN-2000
Seismic Profile Evidence for Offshore Flow Pathways near Tank 100, Haines Fuel Terminal, Haines, Alaska, Interim Report	CRREL	JUL-2000
Bedrock Resistivity Investigations at the Haines Fuel Terminal, Alaska, Letter Report	CRREL	JUL-2000
Offsite Migration Routes Interpreted from a DC Resistivity Model, Haines Fuel Terminal, Alaska	CRREL	SEP-2000
Chemical Data Report Spring 2000 Groundwater, Surface Water, and Sediment Study, Haines Fuel Terminal, Haines, Alaska	USACE, Alaska District	SEP-2000

2001

Chemical Data Report, Haines Fuel Terminal Monitoring Fall 2000	USACE - Alaska District	JAN-2001
Final Site Safety and Health Plan Addendum Haines Fuel Terminal Demolition 2001 Field Activities	Jacobs Engineering Group, Inc.	APR-2001
Archaeological Monitoring of Soil Sample Trenches at the Haines Fuel Terminal Tanks 100 & 107	Northern Land Use Research, Inc.	MAY-2001
Release Investigation Plan Tank 100, Haines Fuel Terminal, Haines, Alaska	CH2M Hill	JUN-2001
Quality Assurance Program Plan Haines Fuel Terminal	CH2M Hill	JUL-2001
Chemical Data Report Haines Fuel Terminal Monitoring (for spring 2001)	USACE, Alaska District	SEP-2001
Asbestos Survey Report Various Buildings Haines Fuel Terminal, Haines, Alaska	EHS-Alaska, Inc.	SEP-2001
Permeable Sparging Trench Treatability Study Work Plan Haines Fuel Terminal	CH2M Hill	OCT-2001
Tank 100 Release Investigation Haines Fuel Terminal, Haines, Alaska	CH2M Hill	NOV-2001
Haines Fuel Terminal Monitoring Well Network Status Report, Haines, Alaska	ENSR	DEC-2001
Haines Fuel Terminal 2001 Hazardous Waste Report	Emerald Services, Inc.	DEC-2001

2002

Sampling Event Summary Report Tank 100/HVE System Tank 107	Jacobs Engineering Group, Inc.	JAN-2002
Remedial Investigation Tank 107, Haines Fuel Terminal	ENSR International	JAN-2002
Treatability Study Startup Report Haines Fuel Terminal	CH2M Hill	MAR-2002
Final Revised Haines Fuel Terminal October 2001 Chemical Data Report	ENSR	MAY-2002

IRP Previous Studies

Year	Title	Author	Date
2002	Analytical results for submitted samples	ANALYTICA	JUN-2002
	Treatability Study Monitoring Haines Fuel Terminal Haines, Alaska	CH2M Hill	JUL-2002
	Haines Fuel Terminal Well Decommissioning Technical Memorandum	ENSR	AUG-2002
	Permeable Sparging Trench Treatability Study Monitoring Report (June - Nov. 2002), Haines Fuel Terminal, Haines, Alaska	CH2M Hill	DEC-2002
2003	Paleochannel Investigation, Haines Fuel Terminal	CH2M Hill	FEB-2003
	Draft CLOSES Evaluation Haines Fuel Terminal	CH2M Hill	APR-2003
	Preliminary Summary of Groundwater Flow Derived From the CRREL Flow Probes	CRREL & USACE	JUN-2003
	Permeable Sparging Trench Semi-Annual Treatability Study Monitoring Report (Dec. 2002 - May 2003)	CH2M Hill	AUG-2003
	Permeable Sparge Trench Augmentation Report, Haines Fuel Terminal	CH2M Hill	AUG-2003
	Soil Gas Screening Survey Report, Haines Fuel Terminal	CH2M Hill	AUG-2003
	Bollard Installation and Depth-to-Water Measurements, Tok Fuel Terminal	USACE, Alaska District	SEP-2003
	Hazardous Materials Condition Survey Haines Pumping Station	Bethel Services, Inc. & Environmental Health Services, Inc.	SEP-2003
	Tech Memo, Oil Removal, Haines Fuel Terminal, Haines	CH2M Hill	OCT-2003
	Final Tok Fuel Terminal Preliminary Remedial Investigation Report, Tok AK	USACE	DEC-2003
2004	Final OM&M Manual Haines Fuel Terminal, Alaska	CH2M Hill	FEB-2004
	2003 COELT Deliverables Haines Fuel Terminal, Alaska	CH2M Hill	FEB-2004
	Jan/Feb 2004 COELT Deliverables Haines Fuel Terminal	CH2M Hill	FEB-2004
	2003 Annual Monitoring Report, Haines Fuel Terminal	CH2M Hill	FEB-2004
	Final Site Investigation Report, Haines Fuel Terminal Tanani Point Burn Pit Site Investigation, Soil Excavation, Assessment, and Disposal	BNC International, Inc.	APR-2004
	Final Tok Fuel Terminal Preliminary Remedial Investigation Report	USACE - Alaska District	MAY-2004
	Remedial Action Report Tok Fuel Terminal Demolition	HLA/Wilder Joint Venture	MAY-2004
	Semi-Annual Monitoring Report Haines Fuel Terminal (Jan-May 2004)	CH2M Hill	JUL-2004
	Well Installation Report, Haines Fuel Terminal	CH2M Hill	DEC-2004
2005	Evaluation of Source Areas, Haines Fuel Terminal	CH2M Hill	JAN-2005
	Haines Fuel Terminal Tanani Point Data Package (Lab Work Order B4J0122)	North Creek Analytical, Inc.	FEB-2005

IRP Previous Studies

Year	Title	Author	Date
2005	2004 Annual Monitoring Report Haines Fuel Terminal	CH2M Hill	FEB-2005
	Evaluation of Source Areas, Haines Fuel Terminal	CH2MHILL	MAR-2005
	Final Technical Memorandum for Haines Fuel Terminal Tanani Point Burn Pit Mod No. 2 Bedrock Investigation	BNC International, Inc.	MAY-2005
	Semi-Annual Monitoring Report, Haines Fuel Terminal	CH2M Hill	JUL-2005
2006	Technical Memorandum Haines Fuel Terminal OM&M Summary, November 2005 through February 2006	CH2M Hill	FEB-2006
	2005 Annual Monitoring Report Haines Fuel Terminal	CH2M Hill	AUG-2006
2007	Semi-Annual Monitoring Report, Jan 06 - Jun 06 Haines Fuel Terminal	CH2M Hill	JAN-2007
	Final Remedial Action Report Haines Fuel Terminal Building Demolition	BNC International, Inc.	JAN-2007
	2006 Annual Monitoring Report, Haines Fuel Terminal	CH2M Hill	FEB-2007
	Final Project Management Plan, Haines-Fairbanks Pipeline	North Wind	JUL-2007
	2007 Semi-Annual Monitoring Report Haines Fuel Terminal	CH2M Hill	AUG-2007
	Final QA Project Plan	North Wind	AUG-2007
	Final Waste Management Plan	North Wind	AUG-2007
	Final Operation Maintenance and Monitoring Plan	North Wind	AUG-2007
	Final RA Work Plan Contaminated Soil Stockpiles at Former Tank 100 Location	North Wind	SEP-2007
	Limited Feasibility Study of In Situ Remedial Alternatives for the Paleochannel Beneath Lutak Road, Haines Fuel Terminal	CH2MHILL	OCT-2007
	Technical Memorandum for Field Activities at the Haines Fuel Terminal	North Wind, Inc.	DEC-2007
	Technical Memorandum for Field Activities at the Tok Fuel Terminal	North Wind, Inc.	DEC-2007
	Technical Memorandum for Field Activities at the Pipeline Sites	North Wind, Inc.	DEC-2007
	Technical Memorandum for Field Activities at the Sears Creek Station	North Wind, Inc.	DEC-2007
2008	Tok Fuel Terminal SI Report	North Wind, Inc.	JUN-2008
	Final 2007 Haines Fuel Terminal Annual Report	North Wind, Inc.	JUN-2008
	Sears Creek Station SI Report	North Wind, Inc.	JUL-2008
	Pipeline Sites SI Report	North Wind, Inc.	JUL-2008
	2008 Update to the Project Management Plan Haines-Fairbanks Pipeline Environmental Remediation Services	North Wind, Inc.	AUG-2008
	Technical Memorandum 2008 Field Activities, Including Free Product Recovery, Additional Characterization, and Groundwater Monitoring, at the Haines Fuel	North Wind, Inc.	NOV-2008

IRP Previous Studies

Year	Title	Author	Date
2008	Terminal		
	Technical Memorandum 2008 Field Activities at the Tok Fuel Terminal	North Wind, Inc.	NOV-2008
	Technical Memorandum 2008 Field Activities at the Sears Creek Station	North Wind, Inc.	NOV-2008
2009	Technical Memorandum for Spring 2009 Groundwater and Surface Water Monitoring at the Haines Fuel Terminal	North Wind, Inc.	JUN-2009
	Technical Memorandum for Remedial Action - Excavation and Sampling at the AP-173 Area, Haines Fuel Terminal	North Wind, Inc.	AUG-2009
	Technical Memorandum for Remedial Action - Excavation and Sampling at the Former Administrative Area Utility Building, Haines Fuel Terminal	North Wind, Inc.	SEP-2009
	Technical Memorandum for Remedial Action - Excavation and Sampling at the Former Tank 100 Area, Haines Fuel Terminal	North Wind, Inc.	SEP-2009
	Technical Memorandum for Fall 2009 Groundwater and Surface Water Monitoring at the Haines Fuel Terminal	North Wind, Inc.	NOV-2009
	Technical Memorandum for Operation, Maintenance, and Monitoring of the Air Sparge Trench System for the First Half of the Second Option Year of the Contract at the Haines Fuel Terminal	North Wind, Inc.	NOV-2009
	Final Pipeline Sites Remedial Investigation Report, Haines-Fairbanks Pipeline Environmental Remediation Services	North Wind, Inc.	DEC-2009
2011	Draft 2010 Haines Fuel Terminal Annual Report, Haines-Fairbanks Pipeline	North Wind Inc.	JUN-2011
2012	Draft Final Decision Document for Sears Creek Station, Haines-Fairbanks Pipeline, North Wind, Inc.	USAG FWA	SEP-2012

HAINES PIPELINE
Installation Restoration Program
Site Descriptions

Site ID: HNS-01

Site Name: HAINES FUEL TERMINAL (HFT)

STATUS

Regulatory Driver: CERCLA

RRSE: MEDIUM

Contaminants of Concern: Light non-aqueous phase liquids (LNAPL), Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern: Groundwater, Soil, Surface Water

Phases	Start	End
PA.....	199206.....	199403
SI.....	199206.....	199406
RI/FS.....	199406.....	201909
IRA.....	200209.....	201709

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

The HFT was a 200-acre parcel located at Tanani Point approximately three miles north of the city of Haines on the Chilkat Peninsula near the mouth of the Lutak Inlet. The HFT was constructed in 1954 to provide facilities for receiving fuel (docking and unloading tankers), fuel storage, and distributing fuel through a pipeline system to military installations along the way up to the vicinity of Fairbanks. From 1955-1971 the HFT was an active fuel storage and pumping facility, and the final storage activities ceased in 1988. All aboveground structures (buildings, ASTs, aboveground piping) were removed during a site demolition conducted in 2002-2003.

Sites under this entry include: (1) underground injection control wells (septic systems and dry wells); (2) underground storage tanks (UST); (3) bulk fuel storage tank basins and berms (13 ASTs), and distribution lines (for transfer of fuel into, out of, and around the facility); (5) former structures (incinerator, warehouse, storage facilities, utility building, garages, shops, intermediate and mainline pump houses, manifold building, generator buildings, oil/lube racks, laboratory, equipment storage, and drum storage areas); (6) landfills; (7) fuel points (vehicle fill station and truck fill stand); and (8) burn pits. Additional database entries will be created if any sites within this group require RAs.

Contamination from leaking USTs, leaking pipelines, and three burn pits used for waste fuels and solvent disposal was identified in 1990. Subsequent investigations, varying in scope, were conducted at the HFT during the years through 2006. Interim measures have been conducted at the facility to remove and treat contaminated soils associated with the burn pits and USTs. An AS system was installed in 2003 to treat contaminated groundwater and operated on a regular basis through 2010. The system was operated on an intermittent basis through 2014 before being shut down. The system, in conjunction with an in-house study through the US Army Corps of Engineers (USACE) and USAEC was evaluated to determine the continued effectiveness of the system. An RI conducted during the 2007-2008 time frame covered several of the above sites at the facility. Data gaps were identified after the investigation so the report was considered incomplete and not accepted as final. There are three primary areas of contamination at the terminal: the former Northern Tank Farm Area, the Paleochannel Area, and the former Administration Area. The identified contaminants of potential concern (COPC) in subsurface soils and groundwater are the same for each area: gasoline-range organics (GRO), diesel range organics (DRO), and 1, 3, 5 and 1, 2, 4-trimethylbenzene. A new contract to develop a complete and a final RI was awarded in 2014.

CLEANUP/EXIT STRATEGY

An RI for the HFT Quarters Landfill is included in the current contract that is scheduled to be funded in FY16. The current contract includes unfunded options for maintenance and repair of fencing and monitoring wells in FY16 and FY17. The path forward for an RA and site closure cannot be determined until completion of the RI/FS phase. When the future remedial efforts are employed at the site, they will follow the CERCLA process due to the occurrence of CERCLA contaminants on site.

Site ID: HNS-03
Site Name: SEARS CREEK STATION

STATUS

Regulatory Driver: CERCLA

RRSE: LOW

Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern: Soil

Phases	Start	End
PA.....	199310.....	199310
SI.....	199310.....	199310
RI/FS.....	200505.....	201809
IRA.....	201601.....	201708

RIP Date: N/A

RC Date: 201910

SITE DESCRIPTION

Sears Creek Station is a 9.8-acre parcel that was the location of a booster-pump facility for the Haines-Fairbanks Pipeline. Sites under this entry include: (1) underground injection control wells (septic systems and dry wells); (2) vehicle fuel point (two underground storage tanks); (3) bulk fuel storage tanks (500-barrel and 1400-barrel) and berms; (4) petroleum system piping and distribution lines (for transfer of fuel into, out of, and around the facility); (5) former and existing structures (composite building, valve manifold building/dewatering tower, warehouse, and drum storage area); and (6) a burn pit. Additional database entries will be created if any sites within this group require RAs.

A 1995 PA completed by the USAPACEHEA determined that the relative risk at this site was low because there was no apparent immediate threat to human health and the environment. An RI conducted during the 2007-2008 time frame covered several of the above sites at the facility. Data gaps were identified after the investigation so the final report was considered incomplete. There is no groundwater contamination identified at the site. However, results of the RI indicate soil contamination above ADEC cleanup levels exist at the burn pit. The identified COPCs in subsurface soils are GRO, DRO, 1, 1, 2-trichloroethane, 1, 2, 4-trimethylbenzene, 2-methylnaphthalene, and methylene chloride in soil.

A DD was finalized in May 2012 to excavate contaminated soil from the burn pit. The selected remedy was determined to be impracticable (excavation to groundwater at 40 feet) and it was determined additional data was needed to determine the true nature and extent of soil contamination.

The installation, ADEC, and the USAEC agree additional site characterization data is required. Data gaps include lack of sufficient groundwater information for modeling and, in general, a lack of adequate characterization of each site (uncertainties in characterizing potential contamination from all operations within the facility). A new contract to develop a complete and final RI was awarded in 2014.

CLEANUP/EXIT STRATEGY

The RI is underway, and a cleanup strategy will be developed based on the results of the RI/FS. An SI at a potential landfill at the Sears Creek Station is planned and is included in the new contract as a future option scheduled to be funded in FY16. The current contract also includes unfunded future options for maintenance and repair of fencing and monitoring wells in FY16 and FY17. The path forward for an RA and site closure cannot be determined until completion of the RI/FS phase.

Site ID: HNS-04

Site Name: TOK TERMINAL SI

STATUS

Regulatory Driver: CERCLA

RRSE: MEDIUM

Contaminants of Concern: Metals, Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA.....	199310.....	199312
SI.....	199310.....	199312
RI/FS.....	200505.....	201809
IRA.....	201601.....	201708

RIP Date: N/A

RC Date: 201910

SITE DESCRIPTION

The TFT operated from the mid-1950s until 1979 as a pumping and storage facility for the Haines-Fairbanks Pipeline. The terminal consisted of approximately 127 acres, with the tank farm located on a hill above the handling facilities (main terminal). All aboveground structures (buildings, ASTs, aboveground piping) were removed during a site demolition conducted during 2002-2003.

Sites under this entry include: (1) underground injection control wells (septic systems and dry wells); (2) underground storage tanks; (3) bulk fuel storage tank basins and berms (13 ASTs); (4) petroleum system piping and distribution lines (for transfer of fuel into, out of, and around the facility); (5) former structures (incinerator, warehouse, storage facilities, utility building, garages, shops, mainline pump house, manifold building, generator buildings, oil/lube racks, equipment storage, and drum storage areas); (6) landfills; (7) fuel points (vehicle fill station and truck fill stand); and (8) a burn pit. Additional database entries will be created if any sites within this group require RAs.

Investigations varying in scope were conducted at the terminal during the years 1993, 2003, and 2006. An RI conducted during the 2007-2008 time frame covered several of the above sites at the facility. Data gaps were identified after the investigation so the report was considered incomplete and not accepted as final. Results of the RI indicate soil and groundwater contamination above ADEC cleanup levels exist at several areas within the former terminal. The identified COPCs are DRO and chlorinated solvents. A new contract to develop a complete and final RI was awarded in 2014.

CLEANUP/EXIT STRATEGY

A new contract was issued in FY14 for completing the RI/FS in FY15 and the subsequent DD in FY16. The contract has unfunded future options for monitoring well and fence maintenance in FY16 and FY17.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
HNS-02	HAINES PIPELINE INVESTIGATION	201001	ADEC Closure Letter from January 2010
HNS-05	LAKEVIEW STATION	199312	Transferred to FUDS
HNS-06	TIMBER STATION	199406	Transferred to FUDS
HNS-07	TANK 100 & MANIFOLD BUILDING	199710	Combined into HNS-01
HNS-08	MANIFOLD BUILDING	199812	Combined into HNS-01
HNS-09	LUTAK BURN PIT	199610	Combined into HNS-01
HNS-10	DRUM STORAGE AREA	199903	Combined into HNS-01
HNS-11	TANK 101	199903	Combined into HNS-01
HNS-12	TANK 102	199903	Combined into HNS-01
HNS-13	TANK 103	199903	Combined into HNS-01
HNS-14	TANK 104	199903	Combined into HNS-01
HNS-15	TANK 105	199903	Combined into HNS-01
HNS-16	TANK 106	199903	Combined into HNS-01
HNS-17	TANK 107	199903	Combined into HNS-01
HNS-18	TANK 108	199903	Combined into HNS-01
HNS-19	TANK 109	199903	Combined into HNS-01
HNS-20	TANK 110	199903	Combined into HNS-01
HNS-21	TANK 111	199903	Combined into HNS-01
HNS-22	TANK 112	199903	Combined into HNS-01
PBC at Haines	PBC	201103	All CLINs awarded

IRP Schedule

Date of IRP Inception: 199002

Past Phase Completion Milestones

1990

PA (HNS-07 - TANK 100 & MANIFOLD BUILDING, HNS-08 - MANIFOLD BUILDING, HNS-09 - LUTAK BURN PIT, HNS-10 - DRUM STORAGE AREA, HNS-11 - TANK 101, HNS-12 - TANK 102, HNS-13 - TANK 103, HNS-14 - TANK 104, HNS-15 - TANK 105, HNS-16 - TANK 106, HNS-17 - TANK 107, HNS-18 - TANK 108, HNS-19 - TANK 109, HNS-20 - TANK 110, HNS-21 - TANK 111, HNS-22 - TANK 112)

1994

PA (HNS-01 - HAINES FUEL TERMINAL (HFT), HNS-02 - HAINES PIPELINE INVESTIGATION, HNS-03 - SEARS CREEK STATION, HNS-04 - TOK TERMINAL SI, HNS-05 - LAKEVIEW STATION, HNS-06 - TIMBER STATION)

SI (HNS-01 - HAINES FUEL TERMINAL (HFT), HNS-02 - HAINES PIPELINE INVESTIGATION, HNS-03 - SEARS CREEK STATION, HNS-04 - TOK TERMINAL SI, HNS-05 - LAKEVIEW STATION, HNS-06 - TIMBER STATION)

1995

PA (PBC at Haines - PBC)

1996

RI/FS (HNS-07 - TANK 100 & MANIFOLD BUILDING, HNS-08 - MANIFOLD BUILDING, HNS-09 - LUTAK BURN PIT, HNS-10 - DRUM STORAGE AREA, HNS-11 - TANK 101, HNS-12 - TANK 102, HNS-13 - TANK 103, HNS-14 - TANK 104, HNS-15 - TANK 105, HNS-16 - TANK 106, HNS-17 - TANK 107, HNS-18 - TANK 108, HNS-19 - TANK 109, HNS-20 - TANK 110, HNS-21 - TANK 111, HNS-22 - TANK 112)

RD (HNS-09 - LUTAK BURN PIT)

SI (HNS-07 - TANK 100 & MANIFOLD BUILDING, HNS-08 - MANIFOLD BUILDING, HNS-09 - LUTAK BURN PIT, HNS-10 - DRUM STORAGE AREA, HNS-11 - TANK 101, HNS-12 - TANK 102, HNS-13 - TANK 103, HNS-14 - TANK 104, HNS-15 - TANK 105, HNS-16 - TANK 106, HNS-17 - TANK 107, HNS-18 - TANK 108, HNS-19 - TANK 109, HNS-20 - TANK 110, HNS-21 - TANK 111, HNS-22 - TANK 112)

1997

RA(C) (HNS-09 - LUTAK BURN PIT)

RD (HNS-07 - TANK 100 & MANIFOLD BUILDING)

1998

LTM (HNS-07 - TANK 100 & MANIFOLD BUILDING)

RA(C) (HNS-07 - TANK 100 & MANIFOLD BUILDING)

RA(O) (HNS-07 - TANK 100 & MANIFOLD BUILDING)

2010

RA(C) (PBC at Haines - PBC)

RI/FS (HNS-02 - HAINES PIPELINE INVESTIGATION, PBC at Haines - PBC)

2011

RA(O) (PBC at Haines - PBC)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

Site ID	Site Name	ROD/DD Title	ROD/DD Date
HNS-04	TOK TERMINAL SI	Tok Fuel Terminal Removal	20180901

IRP Schedule

Final RA(C) Completion Date: 201003

Schedule for Next Five-Year Review: 2017

Estimated Completion Date of IRP at Installation (including LTM phase): 201909

HAINES PIPELINE IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
HNS-01	HAINES FUEL TERMINAL (HFT)	RI/FS						
		IRA						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
HNS-03	SEARS CREEK STATION	RI/FS						
		IRA						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
HNS-04	TOK TERMINAL SI	RI/FS						
		IRA						

HAINES PIPELINE
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 1/0

Installation Site Types with Future and/or Underway Phases

1 Open Burn
(CC-HNSSCT-03a)

Most Widespread Contaminants of Concern

Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern

Groundwater, Soil

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
N/A				

Duration of CR

Date of CR Inception: 199401

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201809/201909

Date of CR completion including Long Term Management (LTM): 201809

CR Contamination Assessment

Contamination Assessment Overview

The Used Petroleum Burn Pit was used to dispose of petroleum waste products generated at the facility. The identified COPCs in subsurface soils are GRO, DRO, 1,1,2-trichloroethane, 1,2,4-trimethylbenzene, 2-methylnaphthalene, and methylene chloride. Additional soil and groundwater characterization will be performed in 2015.

Cleanup Exit Strategy

A contract was awarded in FY14 to summarize the work done across the site to date; the contract will serve to identify any remaining data gaps. The RI/FS was completed in FY13, and the subsequent DD will be completed in FY17.

CR Previous Studies

2010

Title

Author

Date

Final Sears Creek RIFS	North Wind, Inc	SEP-2010
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HAINES PIPELINE
Compliance Restoration
Site Descriptions

Site ID: CC-HNSSCT-03a
Site Name: Used Petroleum Burn Pit

STATUS

Regulatory Driver: CERCLA
Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Volatiles (VOC)
Media of Concern: Groundwater, Soil

Phases	Start	End
PA.....	199401.....	199402
SI.....	199403.....	200609
RI/FS.....	200701.....	201212
RD.....	201409.....	201704
RA(C).....	201705.....	201809
RA(O).....	201705.....	201809
RIP Date:	201809	
RC Date:	201909	

SITE DESCRIPTION

The Used Petroleum Burn Pit was used to dispose of petroleum waste products generated at the facility. The identified COPCs in subsurface soils are GRO, DRO, 1,1,2-trichlorethane, 1,2,4-trimethylbenzene, 2-methylnaphthalene, and methylene chloride. Groundwater contamination was not identified. The remedy selected in the 2012 DD (North Wind, 2012) is excavation of soils exceeding ADEC cleanup levels and treatment of these soils by placement of excavated soils in a land farm cell to be constructed on-site. The selected remedy was determined to be impracticable (excavation to groundwater at 40 feet) and it was determined additional data was needed to determine the true nature and extent of soil contamination. The additional soil and groundwater characterization was performed in 2015.

CLEANUP/EXIT STRATEGY

The ADEC is requiring excavation of all soil exceeding ADEC cleanup levels. Given the groundwater elevation fluctuations observed at the site, it is assumed that excavation to a depth of 40 feet will be necessary to meet the ADEC requirement. Soil treatment will consist of land farming.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
There are no NFA sites			

CR Schedule

Date of CR Inception: 199401

Past Phase Completion Milestones

1994

PA (CC-HNSSCT-03a - Used Petroleum Burn Pit)

2006

SI (CC-HNSSCT-03a - Used Petroleum Burn Pit)

2013

RI/FS (CC-HNSSCT-03a - Used Petroleum Burn Pit)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

To Be Determined

Final RA(C) Completion Date: 201809

Schedule for Next Five-Year Review: 2017

Estimated Completion Date of CR at Installation (including LTM phase): 201809

HAINES PIPELINE CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CC-HNSSCT-03a	Used Petroleum Burn Pit	RD						
		RA(C)						
		RA(O)						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): 199608

Restoration Advisory Board (RAB): RAB established 199702

RAB Adjournment Date: N/A

RAB Adjournment Reason: None

Additional Community Involvement Information

The surrounding communities for the HFT (HNS-01) site are in the Haines Borough, Alaska (population about 2,275). A community relations plan was published in August 1996. This plan still continues to meet the needs of the installation.

A RAB was established in February 1997. The RAB includes members from the business community, local environmental groups, and local residents. The RAB also includes members of local Native American organizations, the Klukwan and Chilkoot Tribes. Government members include individuals from the ADEC.

The RAB meetings are held annually and focus on current and planned activities at the HFT including review of documents and priorities. The RAB members have been provided technical presentations to help them better understand the cleanup processes and technologies. Brief updates on HNS-01, HNS-03, and HNS-04 are also provided. The last meeting was May 5, 2016.

Administrative Record is located at

Haines Borough Public Library
111 3rd Ave. South
Haines, AK 99827
Telephone number: (907) 766-2545

Information Repository is located at

Haines Borough Public Library
111 3rd Ave. South
Haines, AK 99827
Telephone number: (907) 766-2545

Current Technical Assistance for Public Participation (TAPP):N/A

TAPP Title: N/A

Potential TAPP: N/A

