A Petro 49 Inc. Company

January 18, 2023

City Manager
Municipality of Skagway
P.O. Box 415
Skagway, Alaska 99840

RE: Petro Marine Service's Skagway Marina Fuel Storage Facility Lease

Dear Sir:

Please refer to the lease between the Municipality of Skagway and Petro Marine Services for the fuel storage facility located at the Skagway Marina.

An email request to Alana Lawson, stating requesting Petro's intent to exercise a five-year renewal, was sent in late December 2022.

With regards to Clause 6B of the lease, during the current term, no spills have occurred at this location that would give rise to any ground contamination. As such, we respectfully request a waiver from the requirement to provide certified letter from ADEC as required in above Clause.

Cox Environmental performed a Phase I environmental assessment of the leased property in June 2018 and found no evidence of RECs which would have the potential to create adverse effects on the subject property (page 15). See attached.

Respectfully,

Jason Werner
Chief Financial Officer

cox environmental

Petro Marine Services

Phase I Environmental Site Assessment for

MARINE FUEL STORAGE FACILITY

Skagway, Alaska

June 2018

TABLE OF CONTENTS

FIGURES

APPENDICES

1.0 EXECUTIVE SUMMARY

Cox Environmental Services (CES) has been contracted by Petro Marine Services to perform a Phase I Environmental Site Assessment (ESA) on property commonly known as Petro Marine Marina Fuel Storage Facility located off Congress Way on the breakwater in Skagway, Alaska, herein referred to as the Subject Property. The Subject Property is approximately 1,600 square feet. At the time of inspection, the Subject Property was owned by the Municipality of Skagway and leased to Petro Marine Services. .

The Phase I ESA was performed in conformance with the scope and limitations of Standard Practice for Environmental Assessments: Phase I Environmental Assessment Process (ASTM E1527-13) and the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries (AAI), as required under Section 101(35)(b)(ii) and (iii) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (EPA AAI Rule), and Code of Federal Regulations (40 CFR) 312. The Phase I ESA was conducted to identify potential or existing Recognized Environmental Conditions (RECs), Historical RECs (HRECs), and/or Controlled RECs (CRECs), as defined by ASTM Standard E1527-13 and USEPA, and to provide appropriate inquiry into the previous ownership and use of the Subject Property.

ASTM E1527-13 defines a recognized environmental condition (REC) as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

- A Controlled Recognized Environmental Condition (CREC) is defined as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

- A Historical Recognized Environmental Condition (HREC) is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

This Phase I ESA has revealed no evidence of RECs which have the potential to have adverse affects on the subject property. Based on the results of the Phase I ESA, it is reasonable and prudent to believe that no further action is necessary.

2.0 INTRODUCTION

This report documents the findings, opinions, and conclusions of a Phase I ESA on property commonly known as the Petro Marine Marina Fuel Storage Facility located off Congress Way on the breakwater in Skagway, Alaska. The location of the subject property is depicted on the Skagway (B-1) NW, Alaska U.S. Geological Survey 1:25,000 series, 7.5-Minute Topographic Quadrangle, dated 2017 presented as Figure 1, Site Location Map. A recent aerial photograph is presented as Figure 2, Site Overview. The existing site plan is included as Figure 3, Site Plan.

2.1. Purpose

The purpose of the Phase I ESA was to evaluate the current and historical conditions of the subject property in an effort to identify RECs in connection with the subject property. A REC is defined by ASTM E1527-13 as: The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to a release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs.

In addition, environmental conditions that in the past would have been considered a REC, but which may or may not be considered a REC currently, are identified as HRECs or controlled recognized environmental conditions (CRECs) in ASTM E1527-13. A HREC is defined as a past release of any hazardous substances or petroleum products that occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A CREC is defined as a past release of any hazardous substances or petroleum products that occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

The identification of RECs in connection with the subject property may impose an environmental liability on owners or operators of the subject property, reduce the value of the subject property, or restrict the use or marketability of the subject property, and therefore, further investigation may be warranted to evaluate the scope and extent of potential environmental liabilities.

2.2. Scope of Work

The Phase I ESA conducted at the subject property was in general accordance with ASTM E1527-13 and included the following:

- Records review;
- Site Reconnaissance;
- Interviews;
- Evaluation and Preparation of Report.

This Phase I ESA did not include sampling or testing of soil, water, air, or building materials. These activities would be carried out in a Phase II ESA, if required.

2.3. Significant Assumptions

There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. CES believes that the information obtained from the record review and the interviews concerning the site is reliable. However, CES cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The methodologies of this assessment are not intended to produce all-inclusive or comprehensive results, but rather to provide the client with information relating to the subject property.

2.4. Limitations, Data Failure, and Gaps

Along with all of the limitations set forth in various sections of the ASTM E 1527-13 protocol, the accuracy and completeness of this report may be limited by the following data failures and gaps:

- Access Limitations – none.
- Outstanding Information Requests - none.
- Historical Data Source Failure – none.
- Other - none.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted engineering and scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgment of CES based on the data obtained from the work. Due to the nature of investigation and the limited data available, CES cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be construed as legal advice. Should additional information become available which differs significantly from our understanding of conditions presented in this report, we request that this information be brought to our attention so that we may reassess the conclusions provided herein.

2.5. Special Terms, Conditions, and Deviations

Authorization to perform this assessment was given by an email agreement (dated January 29, 2018) between Petro Marine Services and CES. Instructions as to the location of the property, access, and an explanation of the property to be assessed were provided by Tim Cochran during the site reconnaissance. No deviations from the recommended scope of ASTM E 1527-13 were performed as part of this Phase I ESA.

2.6. Reliance

This report has been prepared for the sole benefit of Petro Marine Services and the Municipality of Skagway. Any other person or entity without the express written consent of CES and Petro Marine Services may not rely upon the report.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1. Location, Legal Description, and Ownership

The Subject Property consists of one parcel, totaling approximately 1,600 square feet or (0.037 acres) and is located off Congress Way on the breakwater, in Skagway, Alaska. The subject property is legally described as:

- A portion of ATS 4, Skagway Recording District, State of Alaska.

The subject property is currently owned by the Municipality of Skagway and is identified in the Municipality's assessment records as Tax Parcel 5A.

3.2. Subject Property Improvements and Operations

The subject property is currently developed with two 10,000-gallon self-diked above ground storage tanks (one gasoline and one diesel) in a secure fenced area. Two 2-inch steel service lines carry fuel to the pier and then flex hose extends to the floating fuel dock. The floating fuel dock is located on the east side of the small boat harbor. This fuel dispensing system is operated only by Petro49 employees.

3.3. Municipal or Private Services and Utilities

Electricity is provided by Alaska Power and Telephone. No other public utilities are in use at the subject property.

4.0 USER PROVIDED INFORMATION

The User Questionnaire was not completed as part of this Phase I ESA.

5.0 RECORDS REVIEW

5.1. Regulatory Agency & Standard Environmental Records Sources

CES contracted Envirosite Corporation (Envirosite) to conduct a search of Federal, State, and Tribal databases containing known and suspected sites of environmental contamination. The number of listed sites identified within the approximate minimum search distance (AMSD) from the Federal and State environmental records database listings specified in ASTM E 1527-13 are summarized in Appendix B of this report. Copies of the Envirosite research data and a full description of the databases are included in Appendix B of this report.

CES reviewed the regulatory databases, and in our opinion, the other sites listed on the regulatory databases do not represent a REC in connection with the subject property.

5.2. Physical Setting

5.2.1. Geology and Hydrogeology

Skagway is located at the head of the Taiya Inlet in northern Southeast Alaska. Rugged mountains, steep-walled valleys and glacial rivers, numerous glaciers, and ice fields characterize the geography of the area. The most recent glacial activity is estimated to have ended between 12,000 to 13,000 years ago. As the glaciers retreated, deep bays and channels and steep-sided valleys were carved.

The base rock that underlies much of Skagway is igneous, intrusive rock, with some metamorphic rock. Both rock types have low permeability to water and surface run-off fluctuates after rain and snowmelt, causing streams to rise rapidly. The retreating glaciers covered the base rock with deposits of colluvium (cobble, boulder-sized rubble, sandy gravel and silt). Because the mountain slopes are very steep, most of this colluvium slid or was washed downslope, and is found at the base of slopes or in depressions. Colluvium is generally considered unsuitable as material for man-made uses or structures. The floor of the river valleys are formed by floodplain and alluvial surface deposits (gravel, sand, some cobbles, and silt). The townsite of Skagway is located on a sand and gravel alluvial deposit to a depth of six hundred feet in the center of the Skagway River valley.

Generally, Skagway's soils range from fine silt, to boulders, to zones of organic material. Most soils are well-drained. Poor drainage occurs in areas with high silt or organic materials, and may create muskeg conditions. The intertidal zone of the Skagway area is composed of deltaic deposits (sandy gravel, gravelly sand, cobbles, small boulders, shell fragments, sand and silt) ten to fifty feet thick, covered by alluvial deposits from the rivers or by man-made fill. Fill has been placed for development along the waterfront, the airport and in distributed properties throughout town.

5.2.2. Hydrogeologic Setting

The Skagway River and the Taiya River are the two major rivers that drain the upper Taiya Inlet watershed. The Skagway and Taiya watersheds are mountainous, with elevations ranging from sea level to almost 7,000 feet. The Skagway River drains an area of approximately 145 square miles, entering Taiya Inlet at the Skagway townsite. Major tributaries to the river include the East Fork and the White Pass Fork of the Skagway River. The city townsite is located in the delta of the Skagway River, downstream of the narrow river valley.

No settling ponds, lagoons, surface impoundments, or natural catch basins were observed on the Subject Property during this investigation.

5.2.3. Topography

As observed during the site reconnaissance and as indicated on the USGS Skagway B-1 NW Quadrangle topographic map, the topography of the subject site is relatively flat lying (USGS, 2017).

5.3. Historical Use

5.3.1. Title Records and Historical Summary

According to ASTM E1527-13 standard, the environmental professional is not responsible for review of recorded land title records or judicial records for environmental liens or Activity Use Limitations (AULs). The User did not provide this documentation, and a 50-year chain-of-title was not requested by the User for this investigation.

5.4. Environmental Liens or Activity and Use Limitations

According to the ASTM E1527-13 standard, the User is required to provide and/or report to the environmental professional any environmental liens or AULs identified for the subject site. CES was not provided lien or AUL documentation for this Phase I ESA. CES did not identify any environmental liens or deed restrictions (Activity and Use Limitations) for the subject site on the State of Alaska Recorder's online records.

5.4.1. Aerial Photographs

Available aerial photographs dated 1948, 1979, 2003, and 2010 were reviewed by CES. The aerial photographs are included in Appendix C of this report.

5.4.2. Historical Topographic Maps

Available topographic maps dated 1951, 1991 and 2017 were reviewed by CES. The historical topographic maps are included in Appendix C of this report.

6.0 SITE RECONNAISSANCE

6.1. Methodology and Limiting Conditions

Jolene Cox, Principal Environmental Scientist with CES, conducted the site reconnaissance on May 3, 2018. The site reconnaissance included exterior observations within the perimeter of the property. Additionally, adjacent and adjoining properties were observed from public areas and the site perimeter. Selected photographs from the site reconnaissance are included in Appendix D.

6.2. Site Visit Findings

6.2.1. Hazardous Substances and Petroleum Products in Connection with Identified Uses

Hazardous substances and/or petroleum products in connection with identified uses were observed on the subject property during the site reconnaissance.

6.2.2. Storage Tanks

Two 10,000 gallon capacity aboveground storage tanks (ASTs) (one gasoline and one diesel) are located on the subject property. The exact age of the ASTs is not known. The ASTs are self-diked and equipped with high-level alarms. No evidence or leakage or overfilling was observed, and no overfills or spills have been reported. A copy of the Spill Prevention, Control and Countermeasure (SPCC) Plan and recent inspections are included in Appendix B.

6.2.3. Odors

No strong, pungent, or noxious odors were observed on the subject property during the site reconnaissance.

6.2.4. Pools of Liquid

No pools or sumps containing liquids likely to be hazardous substances or petroleum products were observed on the subject property during the site reconnaissance.

6.2.5. Drums

Drums were not observed on the subject property during the site reconnaissance.

6.2.6. Hazardous Substance and Petroleum Products Containers (Not Necessarily in Connection With Identified Uses)

No containers identified as containing hazardous substances or petroleum products (not necessarily in connection with identified uses) were observed on the subject property during the site reconnaissance.

6.2.7. Unidentified Substance Containers

No open or damaged containers containing unidentified substances suspected of being hazardous substances or petroleum products were observed on the subject property during the site reconnaissance.

6.2.8. PCBs

No electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs were observed on the subject property during the site reconnaissance.

6.2.9. Interior Observations

No buildings are located on the subject property, so the interior was not observed.

6.2.10. Pits, Ponds, or Lagoons

No pits, ponds, or lagoons (particularly those used in connection with waste disposal or waste treatment) were observed on the subject property during the site reconnaissance.

6.2.11. Stained Soil or Pavement

No areas of stained soil or pavement were observed on the subject property during the site reconnaissance that warrants further investigation.

6.2.12. Stressed Vegetation

No stressed vegetation was observed on the subject property during the site reconnaissance that warrants further investigation.

6.2.13. Solid Waste

No areas that are apparently filled or graded by non-natural causes (or filled by fill of unknown origin) suggesting trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal were observed on the subject property during the site reconnaissance.

6.2.14. Wastewater

No wastewater or other liquid (including storm water) or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the property was observed on the subject property during the site reconnaissance.

6.2.15. Wells

No groundwater wells or other wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells) were observed on the subject property during the site reconnaissance.

6.2.16. Septic Systems

No indication of on-site septic system was observed on the subject property during the site reconnaissance.

7.0 VAPOR INTRUSION & VAPOR ENCROACHMENT

Vapor Intrusion has emerged as a significant environmental issue in recent years. On June 14, 2010, ASTM published E 2600-10, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. It is anticipated that the screening under ASTM E 2600-10 will eventually become a routine part of an AAI compliant Phase I ESA. ASTM E-2600-10 uses a four-tiered approach for identifying and mitigating vapor intrusion conditions (VICs). Tier One provides an initial screening of the possibility that potential vapor intrusion conditions (PVICs) exist at a property. The information required to conduct the Tier One assessment includes current and historical site use data, governmental records, and physical setting information. These are many of the same information sources reviewed in a Phase I ESA. Using this information, the Tier One assessment determines if sources of contamination are located near enough to on-site buildings to create a PVIC. If a PVIC is found to exist, or cannot be ruled out, further assessment is warranted. The client did not request that CES conduct a Vapor Intrusion & Vapor Encroachment Assessment on the subject property.

8.0 FINDINGS, OPINIONS, AND CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the subject property, commonly known as Petro Marine Marina Fuel Storage Facility located off Congress Way on the breakwater in Skagway, Alaska. The Subject Property is approximately 1,600 square feet. At the time of inspection, the Subject Property was owned by the Municipality of Skagway and leased to Petro Marine Services.

Any exceptions to, or deletions from this practice are described in Section 1.0 of this report.

This Phase I ESA has revealed no evidence of RECs which have the potential to have adverse affects on the subject property. Based on the results of the Phase I ESA, it is reasonable and prudent to believe that no further action is necessary.

9.0 SIGNATURE AND ENVIRONMENTAL PROFESSIONAL STATEMENT

Site Assessor
Jolene Cox
Principal Environmental Scientist

Certification:
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Jolene Cox

Principal Environmental Scientist

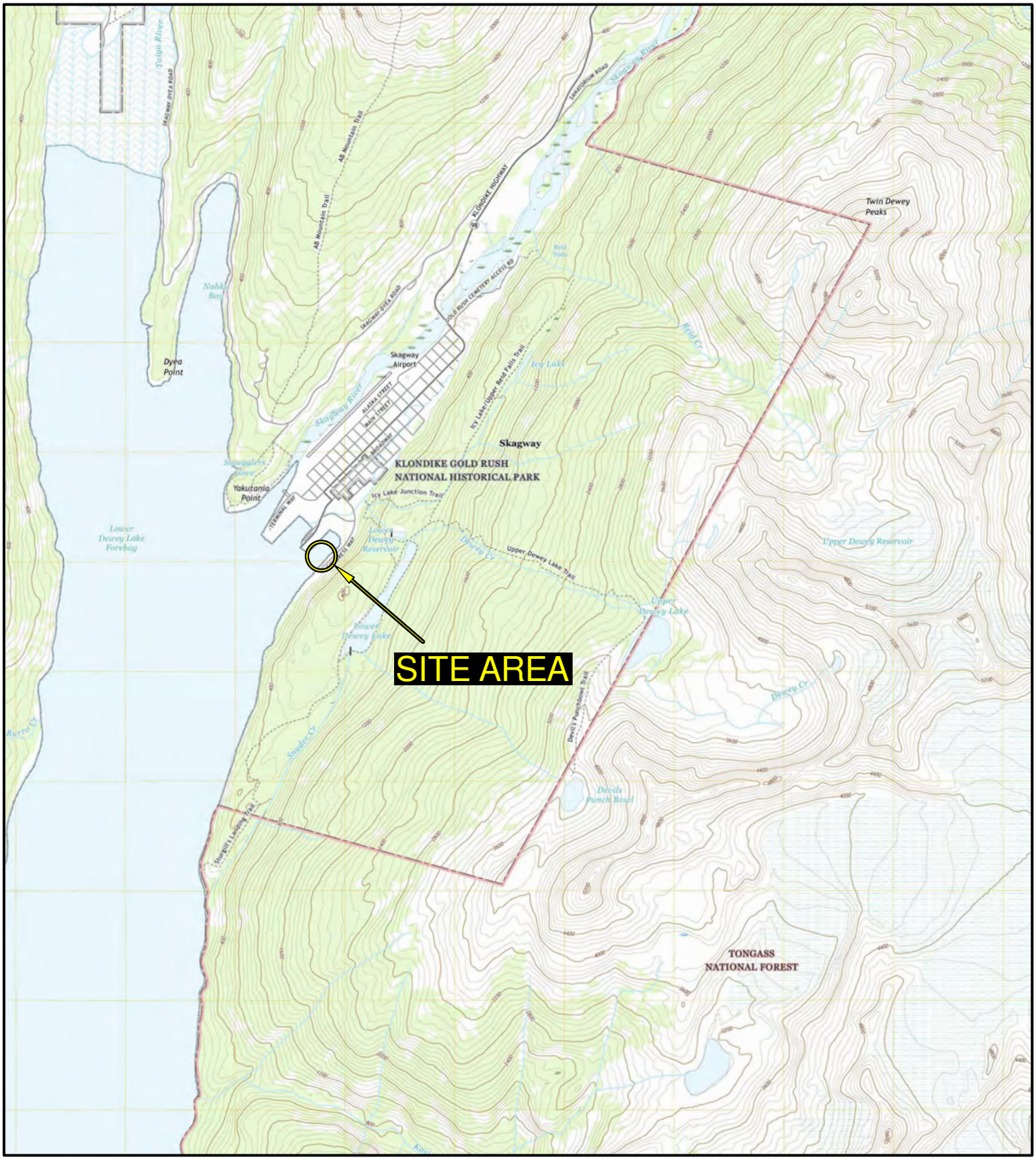
Cox Environmental Services
712 W 12th Street
Juneau, Alaska 99801
(907) 586-4447

10.0 INTERVIEWS

Name	Issue
Tim Cochran, Petro Marine Services	Current & Historical Operations

REFERENCES

ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E50.02/11.05 Website http://www.astm.org.



COX environmental services
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

FIGURE 1. SITE LOCATION MAP

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018

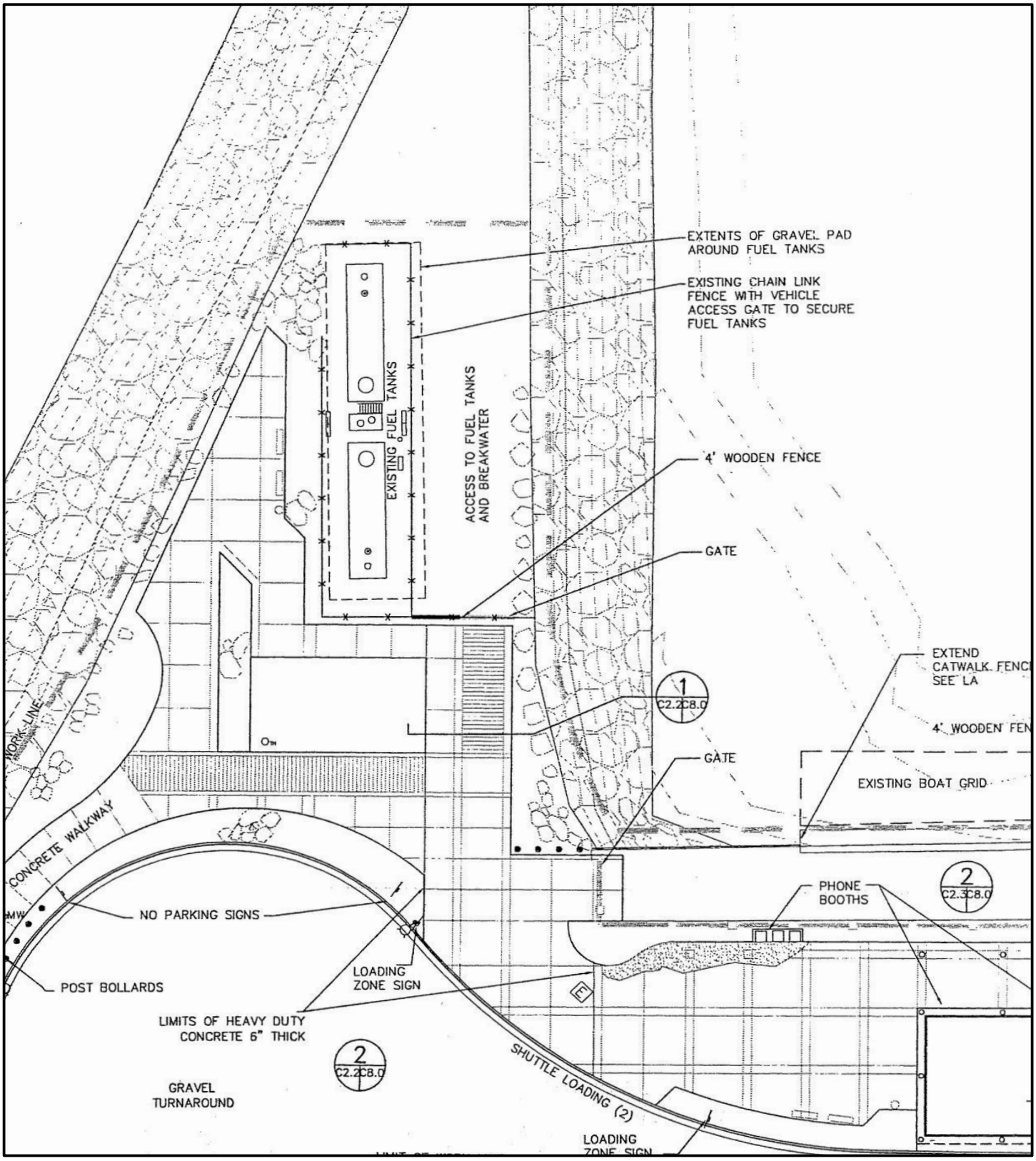
COX environmental services
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

FIGURE 2. SITE OVERVIEW

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018



COX environmental services
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

FIGURE 3. SITE PLAN

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018

Appendix A

Appendix B

Petro Marine Fuel Storage Facility
Congrass Way
Skagway, AK 99840

Inquiry Number: 5343752.2s
June 25, 2018

The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2018 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

CONGRASS WAY
SKAGWAY, AK 99840

COORDINATES

Latitude (North):	59.4481830 - 59° 26' 53.45''
Longitude (West):	135.3215490 - 135° 19' 17.57''
Universal Tranverse Mercator:	Zone 8
UTM X (Meters):	481766.2
UTM Y (Meters):	6589795.5
Elevation:	9 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	N/A
Source:	U.S. Geological Survey

MAPPED SITES SUMMARY

Target Property Address:
CONGRASS WAY
SKAGWAY, AK 99840

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	SKAGWAY WHARF TANKS	SKAGWAY BOAT HARBOR	SHWS	Higher	432, 0.082, ENE
2	SKAGWAY (NAHKU) ORE	STATE STREET SOUTH A	SHWS, INST CONTROL	Lower	1398, 0.265, WNW
3	CORNER STATION	444 4TH AVE	LUST, UST, Financial Assurance	Higher	1767, 0.335, NNE
4	PETRO MARINE SKAGWAY	10 BEACH ROAD NEAR O	SHWS	Higher	1834, 0.347, NW
A5	SKAGWAY RAILROAD YAR	231 - 2ND AVENUE	SEMS	Higher	2090, 0.396, North
A6	RESIDENCE - 363 2ND	363 2ND AVENUE	SHWS	Higher	2092, 0.396, North
A7	SERVICES UNLIMITED	STATE & SECOND STREE	SHWS, INST CONTROL	Higher	2234, 0.423, North
B8	SKAGWAY AT&T	2ND AND MAIN ST.;	SHWS	Higher	2461, 0.466, NNW
B9	SKAGWAY AT&T	2ND AND MAIN ST.	LUST	Higher	2468, 0.467, NNW
C10	CORNER STATION VEHIC	444 4TH AVENUE	SHWS	Higher	2903, 0.550, North
11	NPS KLONDIKE GOLD RU	SW CORNER OF 5TH AVE	SHWS	Higher	2933, 0.555, North
C12	CHEVRON - HOOVERS	INTERSECTION OF 4TH	SHWS	Higher	2944, 0.558, North
D13	SKAGWAY PUBLIC WORKS	5TH AND ALASKA STREE	SHWS	Higher	3375, 0.639, North
14	ALASKA LIQUOR STORE	290 2ND AVENUE 2ND A	SHWS	Higher	3377, 0.640, NNE
D15	SKAGWAY PUBLIC WORKS	PUBLIC WORKS SHOP BL	SHWS, LUST	Higher	3408, 0.645, North
16	SKAGWAY WESTOURS BUS	EAST 9TH OR 10TH BET	SHWS	Higher	3859, 0.731, NNE
17	RESIDENCE - 475B 7TH	475B 7TH AVENUE	SHWS, INST CONTROL	Higher	4025, 0.762, North
18	SKAGWAY FORMER MEDIC	310 11TH AVENUE	SHWS	Higher	4549, 0.862, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Facilities

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
UST ---------- Underground Storage Tank Database
AST ---------- Regulated Aboveground Storage Tanks
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS ---------- Engineering Controls Site Listing

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program sites

State and tribal Brownfields sites

BROWNFIELDS ---------- Identified and/or Proposed Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---------- Recycling Facilities
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
CDL ---------- Illegal Drug Manufacturing Sites
US CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information

EXECUTIVE SUMMARY

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Spills Database
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
AIRS	AIRS Facility Listing
COAL ASH	Coal Ash Disposal Sites
DRYCLEANERS	Drycleaner Facility Listing
Financial Assurance	Financial Assurance Information Listing
NPDES	Wastewater Discharge Permit Listing
UIC	UIC Information

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 05/18/2018 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SKAGWAY RAILROAD YAR	231 - 2ND AVENUE	N 1/4 - 1/2 (0.396 mi.)	A5	63

State- and tribal - equivalent CERCLIS

SHWS: State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with where cleanup will be paid for by potentially responsible parties.

A review of the SHWS list, as provided by EDR, and dated 04/30/2018 has revealed that there are 15

EXECUTIVE SUMMARY

SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SKAGWAY WHARF TANKS Facility Status: Active Hazard ID: 2694	SKAGWAY BOAT HARBOR	ENE 0 - 1/8 (0.082 mi.)	1	8
PETRO MARINE SKAGWAY Facility Status: Active Hazard ID: 2374	10 BEACH ROAD NEAR O	NW 1/4 - 1/2 (0.347 mi.)	4	60
RESIDENCE - 363 2ND Facility Status: Active Hazard ID: 26332	363 2ND AVENUE	N 1/4 - 1/2 (0.396 mi.)	A6	65
SERVICES UNLIMITED Facility Status: Cleanup Complete - Institutional Controls Hazard ID: 25086	***STATE & SECOND STREE***	***N 1/4 - 1/2 (0.423 mi.)***	***A7***	***68***
SKAGWAY AT&T Facility Status: Cleanup Complete Hazard ID: 24418	2ND AND MAIN ST.;	NNW 1/4 - 1/2 (0.466 mi.)	B8	73
CORNER STATION VEHIC Facility Status: Cleanup Complete Hazard ID: 26702	444 4TH AVENUE	N 1/2 - 1 (0.550 mi.)	C10	74
NPS KLONDIKE GOLD RU Facility Status: Cleanup Complete Hazard ID: 25643	SW CORNER OF 5TH AVE	N 1/2 - 1 (0.555 mi.)	11	76
CHEVRON - HOOVERS Facility Status: Cleanup Complete Hazard ID: 24514	INTERSECTION OF 4TH	N 1/2 - 1 (0.558 mi.)	C12	78
SKAGWAY PUBLIC WORKS Facility Status: Cleanup Complete Hazard ID: 24944	5TH AND ALASKA STREE	N 1/2 - 1 (0.639 mi.)	D13	82
ALASKA LIQUOR STORE Facility Status: Cleanup Complete Hazard ID: 4450	290 2ND AVENUE 2ND A	NNE 1/2 - 1 (0.640 mi.)	14	83
SKAGWAY PUBLIC WORKS Facility Status: Cleanup Complete Hazard ID: 23080	***PUBLIC WORKS SHOP BL***	***N 1/2 - 1 (0.645 mi.)***	***D15***	***86***
SKAGWAY WESTOURS BUS Facility Status: Cleanup Complete Hazard ID: 24478	EAST 9TH OR 10TH BET	NNE 1/2 - 1 (0.731 mi.)	16	87
RESIDENCE - 475B 7TH Facility Status: Active Hazard ID: 25184	***475B 7TH AVENUE***	***N 1/2 - 1 (0.762 mi.)***	***17***	***90***
SKAGWAY FORMER MEDIC Facility Status: Active Hazard ID: 26822	310 11TH AVENUE	NNE 1/2 - 1 (0.862 mi.)	18	93

Lower Elevation	Address	Direction / Distance	Map ID	Page
SKAGWAY (NAHKU) ORE Facility Status: Active	***STATE STREET SOUTH A***	***WNW 1/4 - 1/2 (0.265 mi.)***	***2***	***14***

Hazard ID: 401

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Pollution Control & Ecology's LUST Notice Information.

A review of the LUST list, as provided by EDR, and dated 02/12/2018 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CORNER STATION	***444 4TH AVE***	***NNE 1/4 - 1/2 (0.335 mi.)***	***3***	***58***
eventid: 24514 Facility Status: Cleanup Complete				
SKAGWAY AT&T	2ND AND MAIN ST.	NNW 1/4 - 1/2 (0.467 mi.)	B9	74
eventid: 24418 Facility Status: Cleanup Complete				

State and tribal institutional control / engineering control registries

INST CONTROL: Contaminated sites that have institutional controls.

A review of the INST CONTROL list, as provided by EDR, and dated 04/30/2018 has revealed that there are 2 INST CONTROL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SERVICES UNLIMITED	***STATE & SECOND STREE***	***N 1/4 - 1/2 (0.423 mi.)***	***A7***	***68***
Facility Status: Cleanup Complete - Institutional Controls Hazard ID: 25086				

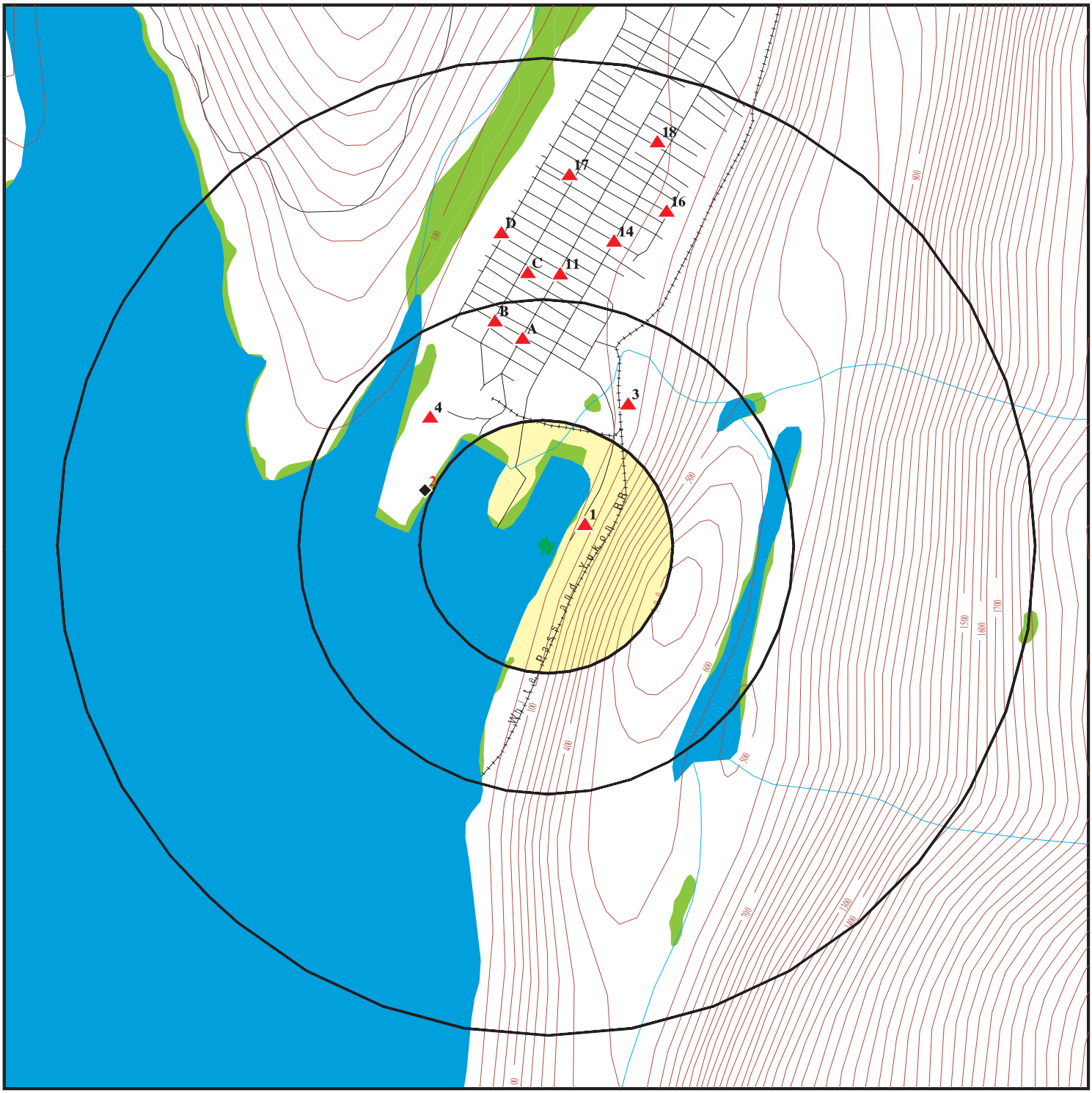
Lower Elevation	Address	Direction / Distance	Map ID	Page
SKAGWAY (NAHKU) ORE	***STATE STREET SOUTH A***	***WNW 1/4 - 1/2 (0.265 mi.)***	***2***	***14***
Facility Status: Active Hazard ID: 401				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
SERVICES UNLIMITED	LUST

OVERVIEW MAP - 5343752.2S



0 1/4 1/2 1 Miles

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

National Wetland Inventory

State Wetlands

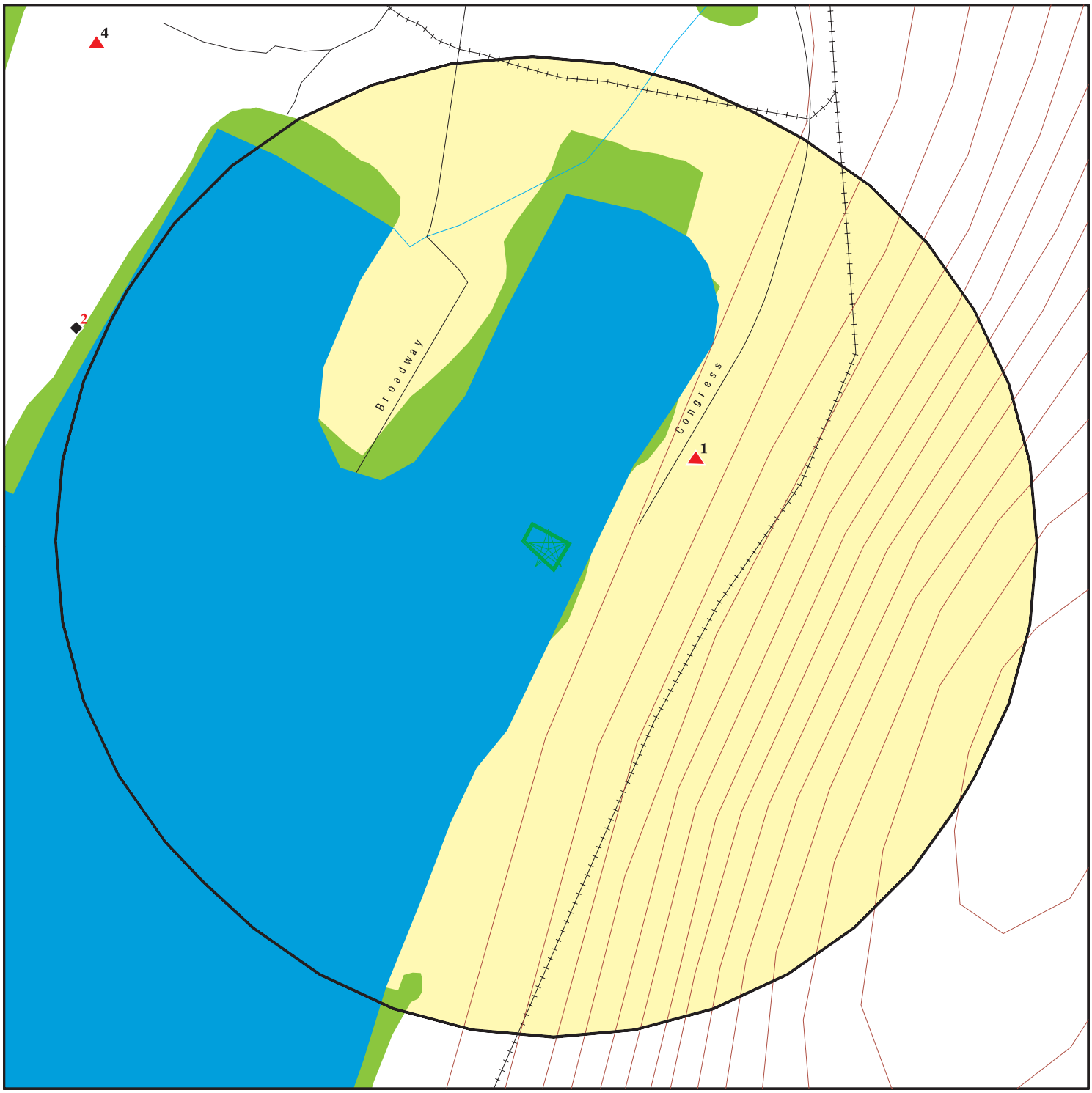
Upgradient Area

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Petro Marine Fuel Storage Facility	CLIENT:	Cox Environmental Services
ADDRESS:	Congrass Way Skagway AK 99840	CONTACT:	Jolene Cox
		INQUIRY #:	5343752.2s
LAT/LONG:	59.448183 / 135.321549	DATE:	June 25, 2018 3:33 pm

2016 EDR, Inc. ©

DETAIL MAP - 5343752.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Petro Marine Fuel Storage Facility	CLIENT:	Cox Environmental Services
ADDRESS:	Congrass Way Skagway AK 99840	CONTACT:	Jolene Cox
LAT/LONG:	59.448183 / 135.321549	INQUIRY #:	5343752.2s
		DATE:	June 25, 2018 3:34 pm

2016 EDR, Inc. ©

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		1	0	5	9	NR	15
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	2	NR	NR	2
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	1	0	10	9	0	20

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
ENE
< 1/8
0.082 mi.
432 ft.

SKAGWAY WHARF TANKS AREA
SKAGWAY BOAT HARBOR
SKAGWAY, AK 99840

SHWS **S106802321**
N/A

Relative:
Higher

Actual:
39 ft.

SHWS:

File Number:	1526.38.009
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Facility Status:	Active
Latitude:	59.448560
Longitude:	-135.319052
Hazard ID:	2694
Problem:	Directly upland from the Skagway Small Boat Harbor is the Wharf Tanks Area located in Klondike National Park. White Pass and Yukon Route Inc. (White Pass) has owned this property since about 1898. Eleven aboveground storage tanks (ASTs) were built in 1942 for use by the U.S. Army to store petroleum hydrocarbon products. In 1962 the bulk fuel AST facility was sold to Pacific and Arctic Pipelines Inc. who operated the facility until dismantling began in 1995 and the last of the ASTs were removed in 1996. As a result of historical activities on the site, there is an extensive residual light non-aqueous phase liquid (LNAPL) zone due to the coarse soils and tidally induced water table fluctuations. Over a large area of the site there is a thick zone of residual LNAPL that is smeared across the interval of soil corresponding to the water table fluctuations. The DEC Spill Response records state that in the mid-1970s a large rock-fall punctured a recently added AST releasing 0.5 million gallons of gasoline. At DEC request in 1999, White Pass arranged for Golder Associates to investigate soil and groundwater contamination. Golder installed monitoring wells, and sampling results from November 2000 and June 2002 indicated that the diesel range hydrocarbons (DRO) are more prevalent than gasoline range hydrocarbons (GRO) and carcinogenic indicator volatile hydrocarbon compounds such as benzene. The November 2000 average levels of GRO, DRO and benzene in groundwater were above the current 18 AAC 75.345 Table C cleanup levels by a factor of five, twenty-six, and thirteen respectively. The June 2002 average levels of GRO, DRO and benzene in groundwater exceeded the 18 AAC 75.345 Table C cleanup levels by a factor of two, four, and four respectively.In 2004, the upland road and surface area was expanded toward the boat harbor where a sheet pile retaining wall was installed. Golder has installed a system of subsurface wells over the length of the former AST area and a network of subsurface piping to pump air into and pull fuel vapors back out of the hydrocarbon smear zone. When fuel appears in groundwater wells it is recovered by pumping until the well is cleared. Active recovery of fuel and vapors from the subsurface continues on a seasonal basis and sample monitoring of groundwater contamination takes place on a less frequent schedule.

Actions:

Action Date:	9/8/2011
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bruce Wanstall
Action Description:	A new updated ranking with ETM has been completed for source area 73670 Former Bulk Fuel ASTs.

Action Date:	9/6/2012
Action:	Site Visit
DEC Staff:	Bruce Wanstall

SKAGWAY WHARF TANKS AREA (Continued) **S106802321**

Action Description:	DEC traveled from Juneau to Skagway and attended a meeting with representatives of White Pass and Yukon Route and consultant Golder & Associates. A site visit was performed by the attendees and plans were made for DEC and Golder to return to the site for scheduled sampling site activity in fall 2012.
Action Date:	9/5/2006
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Site visit. City upgrades to seawall and road nearly completed.Inspected SVE/Air Sparge system. System switched automatically depending on tidal level. Sparging occurs during high tide and vapor extraction during lower tidal levels. System is turned off during the winter months as there is no one to maintain it. About 700 gallons recovered to date.
Action Date:	9/26/2008
Action:	Site Visit
DEC Staff:	Evonne Reese
Action Description:	Site visit conducted along with other White Pass sites. The air sparging/vapor extraction system will continue to run until mid October when it will be shut down for the winter.
Action Date:	9/24/2015
Action:	Report or Workplan Review - Other
DEC Staff:	Bruce Wanstall
Action Description:	DEC letter to White Pass & Yukon Route Railway provides approval for: 2011 to 2014, Environmental Monitoring Program, ADEC File 1526.38.009 Report (Report), dated April 24, 2015. Golder and Associates Inc. completed the Report documenting results of environmental sampling and product recovery at the Skagway Wharf Tanks Area Site between October 2011 and September 2014. DEC agreed with conclusions in the Report and recommendations to employ a passive product skimmer in the new product recovery wells with monitoring and measurements by White Pass staff and continuing with annual groundwater sample monitoring. DEC requested Golder submit a scheduled plan for the continuous monitoring of the recovery wells by White Pass staff. The next groundwater sample monitoring is scheduled for fall 2015.
Action Date:	9/10/2008
Action:	Meeting or Teleconference Held
DEC Staff:	Evonne Reese
Action Description:	Meeting via teleconference with Ed Hanousek (White Pass) and Gary Hamilton (Golder Associates) regarding the status of this site. The air sparging/soil vapor extraction unit has been running all summer and will continue to until the end of the season. One well is showing product and is being bailed. No other wells are showing non-aqueous phase liquids. Approximately 1,000 gallons has been recovered to date from this site. Groundwater modeling has been done. Not seeing much mass fluxing into the harbor.
Action Date:	8/29/2014
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	Golder installed the product recovery well in May, 2014, and plans to sample all wells in September 2014. Although Golder has compiled an environmental sampling report summarizing groundwater monitoring data

SKAGWAY WHARF TANKS AREA (Continued) **S106802321**

since the report titled: 2006 to 2009 Environmental Monitoring Program Former Wharf Tank Site (Golder 2011), DEC agreed to postpone completion to allow addition of the 2014 data into a Summary Report in 2015.

Action Date: 8/15/2016
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: DEC reviewed and approved the 2015 Wharf Tanks Environmental Monitoring Report completed by Golder and Associates for the White Pass and Yukon Route Railway. Golder conducted annual groundwater sampling at the Wharf Tanks Site on October 8, 2015 at monitor wells MW00-37, MW00-38, MW00-39, MW00-40, WW0041, MW00-42, MW00-44, MW00-45, and MW14-02. Groundwater samples were not collected from well MW00-46 as this well was blocked at approximately four feet below grade and from MW00-43 as this well was not accessible due to a locking road box that could not be opened. In regard to wells MW00-40 and MW00-44, which have historically had measureable LNAPL, Golder collected samples immediately after the removal of a product skimmer.

Action Date: 8/12/2013
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC traveled to Skagway to attend meetings with representatives of White Pass and Yukon Route to assist with the planning and coordination of site activity by consultant Golder Associates at the site. DEC requested White Pass submit a report for the well sampling performed at the site in 2013.

Action Date: 7/20/2010
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: Project management transfered to Bruce Wanstall; dissolved hydrocarbon concentrations in groundwater were generally lower in 2005 than the two previous sampling summary reports. Air sparging and soil vapor extraction system operation are geared to reduce the petroleum contaminant mass. LNAPL recovery is done by hand during summer months.

Action Date: 7/20/2004
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: CR check received - $258.12. Check previously received for $1,490.79

Action Date: 6/4/2004
Action: GIS Position Updated
DEC Staff: Bill Janes
Action Description: GPS reading obtained

Action Date: 6/4/2004
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: Project manager transition site visit.

Action Date: 6/11/2014
Action: Site Visit
DEC Staff: Bruce Wanstall

SKAGWAY WHARF TANKS AREA (Continued) **S106802321**

Action Description:	DEC met with White Pass President John Finlayson, Superintendent of Rail Operations Mark L. Taylor, Director of Safety & Labor Relations Tyler Rose, and Golder Associates Senior Hydrologist Tamra Reynolds and Golder Principal Gary J. Hamilton at White Pass offices in Skagway. DEC agreed that correspondence, site work and reporting by Golder for this Site is acceptable. New well installation is planned in May, 2015.
Action Date:	5/7/2001
Action:	Cleanup Level(s) Approved
DEC Staff:	Anne Marie Palmieri
Action Description:	Method 2 soil cleanup levels are approved.
Action Date:	5/7/2001
Action:	Cleanup Plan Approved
DEC Staff:	Anne Marie Palmieri
Action Description:	Air sparging system will be installed. Additional characterization samples at the face of the bluff requested.
Action Date:	5/7/2001
Action:	Site Characterization Report Approved
DEC Staff:	Anne Marie Palmieri
Action Description:	Report approved this date.
Action Date:	5/3/2012
Action:	Site Characterization Report Approved
DEC Staff:	Bruce Wanstall
Action Description:	DEC has reviewed and approved the Golder 2011 EMP Report. The DEC approval letter was sent today by regular mail to White Pass & Yukon Route representative Ed Hanousek. The DEC has requested action by White Pass at this Site in 2012. Most are recommended by Golder in the Report but a few of the requests go beyond that. DEC requests access wells be installed for continuous recovery of free product on groundwater and the addition of water wells up-gradient and down-gradient of the contaminant plume.
Action Date:	5/27/2003
Action:	Meeting or Teleconference Held
DEC Staff:	Anne Marie Palmieri
Action Description:	Meeting held with White Pass and Golder in Skagway.
Action Date:	5/27/2003
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	A point of compliance for meeting AWQS was placed on the beach and the remedial action objective (RAO) for benzene during the air sparging was put off until Golder does additional monitoring.
Action Date:	4/2/2014
Action:	Report or Workplan Review - Other
DEC Staff:	Bruce Wanstall
Action Description:	In spring 2014 DEC verbally agreed to modifications to the approved 2013 Golder Work Plan and inquired on progress compiling monitoring data into an environmental monitoring report. Golder stated that a report is in progress and efforts continue to schedule well drilling at Skagway sites in 2014 to replace monitoring well MW00-44 with a recovery well.

SKAGWAY WHARF TANKS AREA (Continued) **S106802321**

Action Date:	4/15/2013
Action:	Meeting or Teleconference Held
DEC Staff:	Bruce Wanstall
Action Description:	DEC held a teleconference meeting with Golder to discuss the approval letter requests for future site activity at the Skagway Wharf Tank site. Golder agreed to replace MW00-044 with a free product recovery well and DEC agreed to not require water well installation behind the sheet pile bulkhead on the foreshore of the Small Boat Harbor. Golder anticipated that site activity in 2013 will begin in late May and will carry over into June.
Action Date:	3/21/2003
Action:	Site Characterization Report Approved
DEC Staff:	Anne Marie Palmieri
Action Description:	Supplemental Investigation report reviewed and approved.
Action Date:	2/5/2004
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Air sparging system was not installed last summer. Golder hopes for spring start-up.
Action Date:	2/26/2008
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bill Janes
Action Description:	Initial ranking with ETM completed.
Action Date:	2/10/2004
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	City wants to replace timber seawall and add an additional 50 feet to the roadbed on the harbor side. Sampling of proposed dredging area to occur in 2/04.
Action Date:	12/1/1999
Action:	Update or Other Action
DEC Staff:	Sally Schlichting
Action Description:	Site characterization work requested to be performed after area was identified during Skagway upper tank farm assessment.
Action Date:	11/29/1999
Action:	Site Ranked Using the AHRM
DEC Staff:	Sally Schlichting
Action Description:	Initial ranking.
Action Date:	11/26/1999
Action:	Site Added to Database
DEC Staff:	Sally Schlichting
Action Description:	Petroleum, gasoline and diesel.
Action Date:	11/21/2002
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Michael Katzie of the Skagway Traditional Council wants to be kept up to date with this cleanup.
Action Date:	11/16/2012

SKAGWAY WHARF TANKS AREA (Continued) **S106802321**

Action:	Site Visit
DEC Staff:	Bruce Wanstall
Action Description:	DEC traveled to Skagway to observe free product recovery from groundwater wells during the lowest slack tide in November, 2012, by consultant Golder Associates for RP White Pass and Yukon Route. Approximately 1/2 gallon of free phase oil was recovered in the first bailing on the evening of the 15th from well MW00-37; a second bailing on the evening of the 16th will be conducted to derive an estimated recharge rate. The oil appeared to be weathered 2 diesel which is consistent with groundwater sampling chemical analysis.
Action Date:	10/28/2013
Action:	Report or Workplan Review - Other
DEC Staff:	Bruce Wanstall
Action Description:	In fall 2013, Golder submitted a letter Work Plan summarizing collaboration with DEC to plan a schedule for future site activity appropriate to the status of the cleanup process at the Site. DEC approved the proposal for Golder to perform annual groundwater monitoring in fall, 2013, then after collecting a sample from well MW-0044 in 2014, replace the well with a 6-8-inch product recovery well that will span depths of high and low tide groundwater levels. Golder planned to complete the new well with a flush mount road-box to accommodate seasonal high road traffic near the Small Boat Harbor and the eastern-shore cruise ship dock.
Action Date:	10/27/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	CR check received - $75
Action Date:	10/24/2013
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	DEC requested by electronic mail that Golder submit a reporting schedule for 2013 site activity at the Wharf Tanks Site. In a meeting in fall 2012 DEC discussed with Golder and White Pass the problems inherent with long periods of no updates or reports from environmental consultants performing work on active contaminated sites. DEC and Golder discussed the specific work plan expectations for the Wharf Tanks site in April 2013. The same work plan expectations were discussed with the new supervising manager for White Pass (John Finlayson) in August 2013. Shortly after today's email was circulated Mr. Finlayson contacted DEC to state that going forward he and Ed (Hanousek) would improve the flow of information to the department regarding site activity.
Action Date:	10/10/2017
Action:	Update or Other Action
DEC Staff:	Kathryne Roldan
Action Description:	Staff assigned changed from Bruce Wanstall to Kara Kusche.

Contaminants:

Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway Wharf Tanks Area
Contaminate Level Description1:	Not reported
Contaminate Media1:	Not reported

SKAGWAY WHARF TANKS AREA (Continued) **S106802321**

Control Type:	Not reported
Control Details Description1:	Not reported
Contaminant CTD:	Not reported
Contaminant CDR:	Not reported
Comments:	Not reported

---

2 WNW 1/4-1/2 0.265 mi. 1398 ft. **SKAGWAY (NAHKU) ORE TERMINAL** **SHWS S104894078**
STATE STREET SOUTH AT SKAGWAY HARBOR WEST NAKHU BAY **INST CONTROL N/A**
SKAGWAY, AK 99840

Relative: Lower

Actual: 1 ft.

SHWS:

File Number:	1526.38.004
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Facility Status:	Active
Latitude:	59.450734
Longitude:	-135.327611
Hazard ID:	401
Problem:	The release of lead and zinc ore concentrate fugitive dust to upland properties and to harbor sediments of the marine environment from historical ore transfer operations (1970s, 1980s) is confirmed by site investigation. Complete human exposure route pathways include inhalation, ingestion and dermal contact. Site cleanup in Skagway by responsible party Pacific and Arctic Railway and Navigation Company and other responsible parties has reduced the risk of human exposure on the upland properties, however, contaminated sediments in the Ore Basin of the Skagway Harbor remain a major concern to DEC for the remaining complete exposure pathways to public health. DEC has requested a thorough seafood risk assessment be conducted if a planned sediment dredge removal action cleanup remedy is not implemented in the near future. Environmental Protection Agency (EPA) ID AKD981767148; EPA site name Nahku Ore Facility.

Actions:

Action Date:	9/6/2012
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	Prepare site information and travel from Juneau to Skagway to attend meetings with White Pass and Golder Associates to discuss how to improve communication and coordination of future site activities at sites in Skagway. While aspects of the proposed dredge project at the Ore Terminal Basin were discussed, a site visit was not performed by the attendees.

Action Date:	9/22/2015
Action:	Update or Other Action
DEC Staff:	Kara Kusche
Action Description:	ADEC Division of Water, Compliance and Enforcement Program issues a Closure Letter that states the conditions of all deliverables have been satisfied for the Notice of Violation that was issued on 4/3/2015.

Action Date:	8/7/2001
Action:	Site Ranked Using the AHRM
DEC Staff:	Bill Janes
Action Description:	Site re-ranked to show documented release, Air Exposure index from

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

0.1 to 1.0

Action Date: 8/7/1989
Action: Enforcement Agreement or Order
DEC Staff: Bruce Wanstall
Action Description: Without DEC authorization, White Pass & Yukon Route (White Pass) filled an area of concern for lead contamination prior to soil confirmation analytical sampling and analysis to meet the lead in soil cleanup level of 1,000 milligrams per kilogram. Alaska Department of Law notified White Pass by letter this date of intent to issue a compliance order covering site investigation and testing throughout the remainder of the site investigation and cleanup project.

Action Date: 8/5/2015
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: DEC SPAR and Water Division technical staff met in teleconference with the Alaska Industrial and Export Authority (AIDEA) project manager to discuss DEC requests for changes to a draft quality assurance and sampling plan (QAPP/SAP) prepared by Carson Dorn Inc.(CDI) for Mineral Services Inc. (MSI) operations at the Skagway Ore Terminal (SOT). The group determined that the best means of moving forward to obtain missing discharge permits named in the April 2015 DEC Notice of Violation to MSI included the following: ???proceed with the sampling of the surface water and truck/equipment wash water to characterize their waste streams (note, CDI still exploring the discharge of the graywater and blackwater), ???submit a Notice of Intent (NOI) along with a Storm Water Pollution Prevention Plan (SWPPP) for stormwater coverage under the Multi-Sector General Permit (MSGP, AKR060000), and ???identify a plan (timeline) of when MSI will be able to proceed with closure of the infiltration galleries and transition to an alternative discharge location ??? i.e., surface water discharge.AIDEA requested DEC allow an extension of the NOV deadline of August 15, 2015 to submit permit applications.

Action Date: 8/26/2015
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: DEC approval letter for the 2015 Skagway Harbor Sediment Characterization Report by Anchor QEA submitted on behalf of the Municipality of Skagway for the Gateway Development Project was sent by regular and electronic mail today. A copy of the letter is posted to the database record and is available to the public on the department website.

Action Date: 8/26/1993
Action: Site Added to Database
DEC Staff: No Longer Assigned
Action Description: Metals.

Action Date: 8/26/1988
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: EPA issued Compliance Order 1088-08-18-309 to Bowhead Equipment Company to immediately cease the discharge of ore into the waters of Skagway Harbor (as fugitive dust) and to present EPA with a detailed

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

engineered site control design solution within thirty days. The EPA Order is based primarily on an inspection by EPA on June 17th and 18th, 1988, and on a 1983-84 study by the U.S. Fish and Wildlife Service. In the study, F&W documented high levels of metals, particularly lead, in marine sediments and marine organism tissues.

Action Date: 8/22/2012
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: DEC held a discussion with an environmental representative of Skagway Borough (Gubala) the cleanup remedy for contaminated sediments at the White Pass & Yukon Ore Terminal Dock harbor basin. DEC provided regulatory and industry specifications for the solid waste monofill liner to contain the contaminated sediments in an engineered structure at an upland location.

Action Date: 8/12/2013
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC traveled to Skagway to attend meetings with representatives of the City and Borough of Skagway (City Manager and members of the Assembly and Port Commission), the general public, White Pass and Yukon Route, Pacific Contract Company and Gubala Consulting to assist with the planning and coordination of site activity by the Gateway Initiative to dredge the Ore Terminal Basin that has contaminated sediments.

Action Date: 8/11/2014
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC attended a meeting at the federal building in Juneau sponsored by USACE and EPA for DEC, KPFF, Anchor QEA to discuss permit and work plan requirements involved with the site cleanup dredging of legacy contaminated sediments in the Ore Transfer Harbor that resulted from historical White Pass & Yukon Route ore transfer operations in Skagway. The site cleanup coincides with ore terminal facility remodeling under the Skagway Municipality Gateway Initiative. Municipality representative Dr. Chad Gubala attended the meeting by teleconference from Skagway.

Action Date: 8/10/2009
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: ADEC received laboratory data for the draft Tetra Tech TMDL study on the Skagway Harbor and Pullen Creek for quality assurance review of toxicity data on metals RfD benchmarks for ecological exposure risk in sediment, pore, and ambient waters. Methodology, statistical confidence and species/number tested establish reliability of the conclusions in the report.

Action Date: 7/8/2016
Action: Report or Workplan Review - Other
DEC Staff: Kara Kusche
Action Description: Laboratory Treatability Report was approved. This report summarizes the sediment treatability testing performed to support development of dredge material reuse options. The most effective amendment mixture in reducing contaminant leachability consisted of 3 ferrous sulfate,

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

5 bone meal, and 2 Portland cement.

Action Date:	7/8/2015
Action:	Meeting or Teleconference Held
DEC Staff:	Bruce Wanstall
Action Description:	Water and SPAR Division staff met with consultants for the Municipality of Skagway Gubala Consulting, Anchor QEA and KPFF and the EPA and US Army CORPS at the Federal Building in Juneau regarding the Skagway Municipality sponsored Sediment Characterization Report for the Gateway Project in Skagway Harbor.
Action Date:	7/6/2007
Action:	Exposure Tracking Model Ranking
DEC Staff:	Not reported
Action Description:	Updated Ranking Complete for Source Area: 71380 (Autogenerated Action) Not reported
Action Date:	7/4/2007
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	This contaminated site is listed on CERCLIS database as AKD981767148 Nakhi Ore Facility - Nakhu Harbor - Skagway
Action Date:	7/28/2016
Action:	Report or Workplan Review - Other
DEC Staff:	Kara Kusche
Action Description:	ADEC sends letter approving amendment to the Laboratory Treatability Report.
Action Date:	7/25/2016
Action:	Report or Workplan Review - Other
DEC Staff:	Kara Kusche
Action Description:	ADEC receives amended Laboratory Treatability Report and a Memorandum re: Gateway Treatability References which provide information requested by ADEC regarding sediment treatability topics.
Action Date:	7/17/2007
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	The ADEC sent an environmental status letter to the Borough Manager of Skagway concerning Borough property that was part of the White Pass & Yukon cleanup of lead from soil on commercial and residential property along the mining ore transport route through Skagway. The Borough plans to build a bus barn on commercial property at the south end of town. The Borough was advised that the industrial cleanup level that was approved in 1990 carries a restriction that the excavation of soil and/or transport off-site must be coordinated with the ADEC.
Action Date:	7/13/2010
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	On request, ADEC combined conclusions of the Total Maximum Daily Load (pollution) Study of Skagway Harbor waters with a timeline for conclusions of the investigation and how it will affect developments of the Skagway (Nahku) Ore Terminal Contaminated Site; sent by email to John Walsh, a consultant for the Borough of Skagway.

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Action Date:	6/4/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Project manager transition site visit - obtained GPS reading
Action Date:	6/29/2016
Action:	Potentially Responsible Party/State Interest Letter
DEC Staff:	Kara Kusche
Action Description:	PRP Letter sent to the Municipality of Skagway.
Action Date:	6/27/2007
Action:	Exposure Tracking Model Ranking
DEC Staff:	Not reported
Action Description:	Intitial Ranking Complete for Source Area: 71380 (Autogenerated Action)
Action Date:	6/14/2013
Action:	Site Characterization Workplan Approved
DEC Staff:	Bruce Wanstall
Action Description:	DEC evaluated the 2013 Gateway Pre-Engineering Assessment Sediment Coring Sampling and Analysis Plan (Plan) and held a telephone discussion of the Plan with Gubala Consulting Inc this morning. DEC requested that in addition to the seven other cores scattered throughout the basin Gubala advance a core to collect samples to characterize sediments between the Ore Dock and the shoreline of the transfer facility. The southernmost boring in the basin will be moved to this new location. The analyte list for samples from this boring will remain the same as the other sediment samples. Also, DEC requested Gubala collect a sample and field duplicate of pore water from one of the borings and analyze for total metals only. Plan approval was sent by email to Gubala and copied to the George Edes, Skagway City Manager.
Action Date:	6/11/2014
Action:	Site Visit
DEC Staff:	Bruce Wanstall
Action Description:	DEC site visit to inspect the vegetative cover at the upland undeveloped area
Action Date:	6/11/2013
Action:	Meeting or Teleconference Held
DEC Staff:	Bruce Wanstall
Action Description:	Telephone meeting held with Chad Gubala (consultant for the Skagway Borough) for a final discussion of the sampling plan analyte intervals and methodology for collecting sediment cores in the Ore Terminal Basin. A vibracore device will be used in combination with a dredge stand-in barge to advance borings. After sampling the remainder of the cores will be used to perform a test of the geomembrane planned to envelope contaminated sediments in an on-site upland containment. The exposure response experiment will include exposing the membrane to the core material at varying temperatures monitoring permeability and structural continuity over time.
Action Date:	5/25/2007
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	ADEC received payment of $4,538.18. The funds were recovered from the

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

responsible party/ facility operator for cleanup oversight management of the Skagway (Nakhu) Ore Terminal, Rail Yard and Bulk Fuel Tank Farm sites.

Action Date:	5/24/2010
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bruce Wanstall
Action Description:	A new updated ranking with ETM has been completed for source area 71380 Ore Transfer Shed & Conveyor. Subsurface soil lead concentration exceeds the 400 mg/kg action level: Boring SB-2 lead concentration is 1,999 mg/kg. Construction operations to rebuild the facility are completed which returns control to the direct contact to subsurface soil exposure route.

Action Date:	5/15/2012
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	DEC determined that dredge and upland disposal is the necessary contaminated sediment cleanup remedy. By letter to the DEC, the Borough of Skagway and Port Commission accept the conclusions reached by DEC and its request for mitigation of the risks posed by contaminated sediments. They agreed to: 1) within 2-4 months notify port users and partners (i.e. AIDEA, White Pass) that the Borough accepts cleanup responsibility and will perform additional sediment monitoring and characterization of the SOT basin in parallel with the mitigation planning process; 2) ASAP establish a technical dialogue to seek comments and to organize a lead or team to design and submit a practical and feasible plan for contaminated sediment removal, upland disposal, isolation and monitoring for completion within 2 years.

Action Date:	4/4/2011
Action:	Meeting or Teleconference Held
DEC Staff:	Bruce Wanstall
Action Description:	DEC (CS & Non-Point Source Water Programs) met with the city manager and legislative aide for the Municipality of Skagway to discuss the Ore Terminal contaminated sediments. Skagway plans to coordinate with a contractor to evaluate the existing data reports available in the site record to determine the status of the contamination to assist in planning development in the White Pass Basin.

Action Date:	4/3/2015
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	The DEC Compliance and Enforcement Section of the Water Program issued a Notice of Violation to Mineral Services Incorporated alleging that beginning on or about March 5, 2015 (date of complaint received by ADEC) at 116 Ore Terminal Rd., Skagway, AK 99840, the Skagway Ore Terminal did unlawfully fail to comply with the conditions of the Alaska Administrative Code. Such action is in violation of 18 AAC 72.500 Failure to obtain permit coverage, 18 AAC 72.510 Sludge Disposal, 18 AAC 72.600 Application for Department Approval, and 18 AAC 72.200 Domestic Wastewater Application for Approval. An ADEC inspection on March 31, 2015 confirmed that stormwater, gray water, equipment wash water and potable water from a hose are all being routed to the four infiltration galleries onsite. There are no records of discharge permit applications on file with

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

ADEC. The discharge of stormwater, gray water, equipment wash water and the potable water from the hose is in violation of the proper operation and maintenance of an institutional controls on the property required by the Contaminated Sites Program, as authorized in Title 18 of Alaska???s Administrative Code (AAC) of regulations, Chapter 75.375.

Action Date: 4/26/2017
Action: Report or Workplan Review - Other
DEC Staff: Kara Kusche
Action Description: ADEC approves the Study Design & Sampling and Analysis Plan, along with White Pass's responses to ADEC's comments as a package.

Action Date: 4/24/2014
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: DEC reviewed and approves the 2013 Skagway Harbor Gateway Pre-Engineering Assessment Report. The Report documents benthic core sampling and laboratory analysis in 2013 to characterize sediments in the Skagway Harbor for contamination from legacy and contemporary sources. The site activity is consistent with a work plan approved by DEC in June, 2013, to collect samples from sediment cores advanced deeper below the surface than has been carried out in previous characterization investigations. The data meet field and laboratory report meet Contaminated Sites Program quality assurance criteria therefore the Report is approved in accordance with 18 AAC 75.335(d).The spatial distribution of selected metals and polyaromatic hydrocarbons (PAHs), combined with the relatively consistent depth to refusal (clean sand at ~1.0 to 1.5 meters below surface) for each sediment core illustrates that the base layer of the historically affected sediment zone in the SOT harbor represents the highest degree of contamination. The contamination is highest in proximity to the ore dock, especially near and to the southwest of the loader, and sediment contamination falls rapidly off with depth in the sediment once the sand boundary layer is encountered (~1.0 to 1.5 meters below surface).

Action Date: 4/23/2015
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC CS staff and managers of the Storm Water and Industrial Discharge Permit Programs and Water Quality Compliance and Enforcement teleconferenced with the Skagway Borough Mayor Mark Schafer, City Manager Scott Hahn, and consultants Chad Gubala and Bob Riley with KPFF Engineers. Discussion included a request to DEC that, as landowner, the Skagway Borough have the option to approve or reject any operator proposed permit from a facility located on the Skagway Ore Terminal peninsula. Due to the documented polluting effects of past facility operations on the Skagway Harbor, the Borough prefers no discharge of water, treated or otherwise, be directed to the subsurface on the industrial properties located on the peninsula, particularly at the ore transfer terminal. The preferred option is installation of a collection vessel, for sample monitoring and reporting in accordance with a facility-specific permit quality assurance plan, prior to the discharge of any process treated or storm water from each of the five facility operations on the peninsula.

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Action Date:	4/21/2015
Action:	Meeting or Teleconference Held
DEC Staff:	Bruce Wanstall
Action Description:	DEC Water and Contaminated Sites Programs teleconferenced with representatives of AIDEA, Capstone Mining, and Mineral Services to clarify aspects of the Notice of Violation and improve understanding of how to proceed with permitting water discharges at the ore terminal facility. An Multi Sector General Permit (MSGP) permit is required for storm water and APDES industrial discharge permits may be required for each of the treated water sources. Due to uncertainty of construction and functionality, the subsurface water infiltration systems in a storm water permit became the most uncertain factor going forward with the permit applications.
Action Date:	4/20/1989
Action:	Cleanup Plan Approved
DEC Staff:	Bruce Wanstall
Action Description:	DEC hand-delivered a letter to White Pass & Yukon Route (White Pass) approving the proposed removal action of all soils having lead concentrations greater than 1,000 milligrams per kilogram on the east side of the ore terminal facility and within five feet of the center line of the railroad right of way from their southernmost limits to the Gold Rush Cemetery north of Skagway. Confirmation analytical sampling at the limits of excavation must indicate the cleanup level is met in remaining soil before backfilling and no areas are to be covered or filled without DEC authorization. Excavations will be backfilled with clean fill. Excavated contaminated material from each of those areas will be transported to and stockpiled separately between liners on a concrete pad at the White Pass Rail Yard northeast of town. The burden of prohibiting releases of contaminates during the removal action belongs to White Pass. The letter stated that cleanup of the west side of the ore terminal property remains unresolved but each owner and operator involved are potentially liable for the cost of site investigation, cleanup, and maintenance of site controls at the ore terminal site, now and in the future.
Action Date:	4/2/2012
Action:	Report or Workplan Review - Other
DEC Staff:	Bruce Wanstall
Action Description:	DEC reviewed and by letter approves the 2011 Skagway Harbor Baseline Study (Report), dated November 2011. The revised version of the Report by Chad Gubala documents 2011 site activities for the Municipality of Skagway. The site activity met the objectives of the project and an acceptable number of representative samples were collected. The precision, accuracy and completeness of the resulting analytical data is sufficient to be used to support the decision making process. In accordance with Title 18 Alaska Administrative Code (AAC) 75.360, qualified person(s) used data collection and field methods consistent with DEC methodology. The laboratory data meet Contaminated Sites Program quality assurance criteria therefore the Report is approved in accordance with 18 AAC 75.335(d).
Action Date:	4/18/2008
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	An ADEC letter replied to Minto Explorations concerning the 2007 Skagway Harbor Baseline Study by Access Consulting and Dr. Chad

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Gubala. The study combined bathymetric and tidal pattern data to indicate that a net loss of sediment occurs naturally from the SOT basin. The re-suspenion of metals contaminated sediments into these currents may have spread them into deeper benthic substrate in Lynn Canal. The report did not include laboratory reports or spatial sample location data necessary for a quality assurance evaluation.

Action Date: 4/17/2017
Action: Report or Workplan Review - Other
DEC Staff: Kara Kusche
Action Description: ADEC receives revised Study Design & Sampling and Analysis Plan, along with responses to ADEC comments from White Pass.

Action Date: 4/13/2015
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC met with Skagway Borough consultants Derek Coleman and Chad Gubala in DEC office. Discussion included a scope and schedule for dredge cleanup ex-situ and in-situ stabilization of contaminated sediments at the ore terminal, implementation strategies, structural integrity and sediment cleanup criteria. DEC project manager provided approval of the conceptual plan subject to future comment on the final draft.

Action Date: 3/5/2015
Action: Institutional Control Update
DEC Staff: Bruce Wanstall
Action Description: It has been DEC???s understanding that regular operation of the ore transfer facility produced no discharge of any water to subsurface soil at the ore terminal. The reason for that is the remaining contaminated soil under the protective asphalt cap could leach pollutants (metals and PAH compounds) into subsurface waters that are hydrologically connected to the harbor. The apparent discharge from the water treatment unit and other sources to subsurface infiltration galleries and monitoring wells may conflict with terms of Institutional Controls (ICs) placed on the property by DEC following the 1989 cleanup of lead and zinc contamination of surface soils under two Compliance Orders by Consent that were completed to the satisfaction of the Department. DEC requested work plan to collect samples from the wells for laboratory analysis to monitor effluent produced by operation of the truck wash down unit and storm water runoff from the Ore Terminal Facility.

Action Date: 3/5/2010
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: DEC requested AIDEA submit a laboratory analysis report for baseline SOT basin sediment samples, soil samples and ground water samples that were collected by URS in 2006 and requested by letter that Sherwood/Minto Mining submit laboratory analysis report for sediment samples collected by Access Consulting in 2007 (copy of DEC 4.13.2008 letter requesting the additional data from Access was attached).

Action Date: 3/4/2010
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: ADEC met with the Skagway Borough Manager to discuss the Skagway

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

(Nahku) Ore Terminal contaminated site in Skagway. Several studies of harbor waters in 2007 indicate that sediments contaminated with mining ore metals at the SOT basin have been scattered outward by erosional forces leaving a reduced risk of exposure to aquatic life in the harbor. Both studies are currently under quality assurance review.

Action Date: 3/4/2004
Action: Update or Other Action
DEC Staff: Anne Marie Palmieri
Action Description: PRP notification letter and request for additional work sent to AIDEA. Not reported

Action Date: 3/31/2015
Action: Site Visit
DEC Staff: Bruce Wanstall
Action Description: DEC Water and Contaminated Sites staff met with Tyler Rose at the White Pass & Yukon office in Skagway to arrange a facility inspection of the ore terminal facility. DEC then contacted Capstone Mining operations engineer Martin Mann in YT CA to arrange a meeting with Mineral Services, operator of the terminal. Gene Lindfors met with DEC Water and Contaminated Sites staff to discuss facility site controls and then tour the ore transfer operations area, truck and equipment wash-down collection bays and water treatment plants and the four excess water subsurface infiltration galleries.

Action Date: 3/30/2012
Action: Site Characterization Report Approved
DEC Staff: Bruce Wanstall
Action Description: A contractor for the City of Skagway and Port Commission recently reassessed and provided a report on the contaminated sediments at the marine facility. The report included the observation that existing contamination may be being displaced by erosion into deeper harbor waters. This statement has elevated DEC's concern for the site. DEC letter sent to the Borough of Skagway provided approval of laboratory data from recent site activity with regard to contaminated sediments in the Ore Terminal Basin, comments on and conclusions of all recent data for the site, and requests for a timely cleanup remedy that includes dredge of contaminated sediments from the Ore Terminal Basin and disposal upland in an engineered structure that will meet regulatory monofill requirements.

Action Date: 3/22/2017
Action: Report or Workplan Review - Other
DEC Staff: Kara Kusche
Action Description: ADEC provided comments to White Pass on the Study Design and Sampling & Analysis Plan.

Action Date: 3/15/2018
Action: Report or Workplan Review - Other
DEC Staff: Kara Kusche
Action Description: ADEC reviews and provides comment on the Skagway Ore Basin Risk Assessment report dated January 25, 2018.

Action Date: 2/3/2016
Action: Institutional Control Update
DEC Staff: Kara Kusche

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Action Description:	IC letter sent to parties for signature. Purpose of letter and ICs is to formalize previously established ICs with current parties. Signatures from parties requested within 60 days from receipt. Note that these ICs apply only to the uplands portion of the site.
Action Date:	2/27/2017
Action:	Report or Workplan Review - Other
DEC Staff:	Kara Kusche
Action Description:	Study Design and Sampling & Analysis Plan received from White Pass. This plan is intended to fill data gaps in support of moving forward with a human health and ecological risk assessment. The plan proposes sediment chemistry sampling and analysis, benthic community sampling and analysis, tissue sample collection and analysis, sediment toxicity testing, and toxicity identification evaluation.
Action Date:	2/13/2008
Action:	GIS Position Updated
DEC Staff:	Bruce Wanstall
Action Description:	ArcMap was used to fine-tune the location of the shore-to-ship conveyor at the facility where the release of contaminants occurred and the bulk of residual contamination is of concern to the ADEC. Property Legal Description data was added to the record.
Action Date:	2/10/2015
Action:	Meeting or Teleconference Held
DEC Staff:	Bruce Wanstall
Action Description:	A meeting held at the federal building in Juneau, today (February 10, 2015), was attended by the Sampling and Analysis Plan (SAP) authors Anchor QEA, regulatory representatives of US Army Corps of Engineers, Environmental Protection Agency, and DEC Contaminated Sites Program and, attending in teleconference, was KPFF Consulting Engineers and the Municipality of Skagway. The agenda began with news that the Sonicore technology was successful in reaching a depth of fifteen feet below the mudline to obtain the sediment cores in the difficult terrain of ore terminal harbor and in the small boat harbor in Skagway. Soil core sampling was also completed on the upland Municipality-owned and managed ore terminal operations property. The data objectives included critical geotechnical for structural design and chemical characterization for remedial design. In accordance with the SAP, Anchor QEA collected the first round of analytical samples and submitted them to respective laboratories and have archived the remainder of the cores in frozen, secure storage. The group discussed a basis for how the data will inform sediment management options for the dredge prism design, beneficial reuse of sediment as fill in the Gateway Intermodal Dock sheetpile retaining wall structure, and the coordination of timelines for draft/final characterization reporting, agency and municipal review, permit public comment and final approval processes.
Action Date:	12/9/2014
Action:	Institutional Control Record Established
DEC Staff:	Bruce Wanstall
Action Description:	Institutional Controls (ICs) are established and entered into the database per Compliance Order By Consent (COBC)* executed between White Pass and DEC in 1989 for properties where removal action cleanup was completed to a soil cleanup level of 1,000 milligrams per kilogram. For these properties future land use is restricted to

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

industrial only and any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Requirement of periodic reporting for compliance with ICs in a signed agreement is requested of the landowner, Municipality of Skagway. *COBC No. 88-11-09-299-02 (September 1, 1989)
Not reported

Action Date: 12/27/2007
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: ADEC received payment of $4,858.91. The funds were recovered from the responsible party/ facility former operator for oversight of residual environmental impact long term monitoring of the Skagway (Nakhu) Ore Terminal, Rail Yard and Bulk Fuel Tank Farm sites.

Action Date: 12/27/2002
Action: Update or Other Action
DEC Staff: Anne Marie Palmieri
Action Description: John Wood (AIDEA) informs staff that AIDEA has decided to remove the ore concentrate building as it is a physical safety concern. AIDEA wants DEC to tell them what needs to be done to close out the site. File review will begin in 1/03.

Action Date: 12/2/1988
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: Preliminary Assessment (PA) Report prepared by Ecology and Environment Inc.(E&E) was delivered by regular mail to Tom Healy City Manager for the Municipality of Skagway. DEC sponsored the E&E PA under a cooperative agreement with U.S. Environmental Protection Agency Comprehensive Environmental Response, Compensation, Environmental Response, Compensation, and Liability Act (CERCLA) Preliminary Assessment and Site Investigation (PA/SI) Program. The E&E PA concludes that human and environmental risks may exist as a result of contaminated marine sediments and particulate emissions caused by operations of the Nahku Ore Terminal. Additional investigation of spilled ore, potential food-chain effects, and human health risks posed by inhalation of contaminated dust is needed. These concerns would be appropriately addressed under an investigation using EPA's Revised Hazard Ranking System.

Action Date: 11/26/2012
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC met with Skagway City Manager Tom Healy and consultant John Walsh to discuss the schedule and scope of a project that will dredge contaminated sediments from the basin of the Skagway Harbor at the Ore Terminal ship loading dock. Additional assessment borings will be advanced into subsurface sediments of the basin in 2013. The site activity will provide essential geotechnical data for the project and will better define the volume of contaminated material that is planned to be encapsulated into a confined on-site monofill in conjunction with reconstruction of the ore dock.

Action Date: 11/22/2004
Action: Meeting or Teleconference Held
DEC Staff: Bill Janes

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Action Description:	A teleconference to discuss marine sediment contamination issues was held. Attending were representatives from DEC, AIDEA, Dept. of Law, White Pass, and Bowhead. Parties agreed in concept to hiring a consulting firm specializing in marine sediments to review the six prior studies between 1982 and 1995, identify data gaps, and make recommendations.
Action Date:	11/21/2002
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Michael Kenzie Skagway Tribe checking on risks associated with harbor sediments and subsistence foods. I went through file and put together a briefing email for project manager Palmieri. Stored in Outllook site folder.
Action Date:	11/10/1994
Action:	Site Ranked Using the AHRM
DEC Staff:	No Longer Assigned
Action Description:	Initial ranking.
Action Date:	11/1/2006
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	Project Manager change from Janes to Wanstall
Action Date:	10/31/2014
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bruce Wanstall
Action Description:	A new updated ranking with ETM has been completed for source area 71380 Ore Transfer Shed & Conveyor.
Action Date:	10/23/2015
Action:	Meeting or Teleconference Held
DEC Staff:	Bruce Wanstall
Action Description:	DEC staff met in the Anchorage office with Chad Gubala (Gubala Consulting), and Anchor QEA Barbara Bundy and Derik Koellmann to discuss the Municipality of Skagway (MOS) Gateway Project. The MOS has filed a Clean Water Act Section 404 dredge and fill permit application (POA-2015-371) with the U.S. Army Corps of Engineers. The Gateway Project seeks to redevelop the Skagway Ore Terminal through the demolition of existing in- and over-water infrastructure, environmental dredging of contaminated sediments, and construction of new shoreline infrastructure to facilitate ongoing and new ore loading operations, accommodate a wider variety of vessels, and improve environmental conditions in the Skagway Harbor.
Action Date:	10/20/2015
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	Joint letter from Divisions of Water and SPAR issued to Municipality of Skagway (MOS)addressing concerns related to institutional controls among other issues. Current institutional controls are deemed adequate; however, consistent with current practice, they will be memorialized in a notice of environmental contamination on the property deed and filed with the Department of Natural Resources. In addition, signed agreements to these institutional controls will be obtained from each landowner, leaseholder and operator.

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Action Date: 10/20/2015
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: Joint letter from Divisions of Water and SPAR issued to Municipality of Skagway addressing concerns related to institutional controls among other issues. Current institutional controls are deemed adequate; however, consistent with current practice, they will be memorialized in a notice of environmental contamination on the property deed and filed with the Department of Natural Resources. In addition, signed agreements to these institutional controls will be obtained from each landowner, leaseholder and operator. Letter also addresses water discharge permitting concerns and concerns about the concentrations of copper in the harbor that were previously expressed by the Municipality. ADEC finds that discharge permit requirements are either met or not required, and ADEC finds no evidence of increasing copper concentrations in the harbor.

Action Date: 10/2/2014
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC attended a meeting at the federal building in Juneau sponsored by USACE and EPA for DEC, KPFF, Anchor QEA to discuss a draft Sampling and Analysis Plan for dredging the Small Boat Harbor and Skagway Harbor sediments for beneficial use in the Skagway Intermodal Reconstruction and Legacy Contamination Cleanup for the Municipality of Skagway Gateway Initiative.

Action Date: 10/15/2014
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: A meeting by teleconference, sponsored by Sampling and Analysis Plan (SAP) authors Anchor QEA, on October 15, 2014 was attended by KPFF Consulting Engineers and regulatory representatives from US Army Corps of Engineers, Environmental Protection Agency, and DEC (Water and Contaminated Sites Programs) to discuss modifications to the SAP suggested by the same attendees in an October 2, 2014 meeting held in Juneau. Attendees of this meeting acknowledged that requested clarifications and changes are included in the updated version of the SAP. For example, to accommodate the yet to be determined depth of the Z layer in the deepest Dredged Material Management Units (DMMUs) (itself a variance from the DMMP User Manual), the SAP selects smaller DMMU volumes than the DMMP ranking would normally require and increased the number of sampling locations in the Small Boat and Ore Terminal harbors. Analytical composites are collected from similar depth intervals across borings and from each boring to characterize each DMMU. Section 4.3 of the SAP states: ???The final extent of dredging in the Harbor will be determined based on results of the sampling and additional pending details regarding structural requirements. Preliminary volume calculations indicate that dredging in the vicinity of the Ore Dock may include up to a total maximum volume of approximately 205,000 cubic yards (CY) of material. This dredge volume is a rough estimate and was developed solely for this document to provide a theoretical maximum extent of dredging and subsequently establish the Dredged Material Management Units (DMMUs) for the SAP.??? Section 8.3 of the referenced SAP states: ???Results of chemical, physical, and leachability testing (if necessary) will inform sediment management options for the Project including dredge

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

prism design for both the Ore Dock and SBH. Recommendations will also be made for the management of dredge material for beneficial reuse as fill in the Gateway Intermodal Dock sheetpile retaining wall structure.???

Action Date: 10/15/1999
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: A cleanup of the uplands was conducted 1988-90. Biota sampling and a seafood risk assessment were conducted in 1989-90. This file needs to be reviewed for potential future action.

Action Date: 1/8/2015
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: DEC approved by letter with requests and additions: SOT Uplands Sampling and Analysis Plan for Coordinated Gateway Programming ???23 (Plan). The Plan represents an add-on to the DEC-approved Gateway Sampling and Analysis Plan (SAP) to allow the Municipality of Skagway (MOS) and Alaska Industrial Development and Export Authority (AIDEA) to acquire geotechnical and environmental data from the upland property at the Skagway Ore Terminal (Site) concurrent with execution of the Gateway SAP to characterize harbor sediments for contamination and remedial treatment on-site. Gubala Consulting Inc. prepared and submitted the Plan as an impartial third party qualified person, proposed data collection and field screening methods that are consistent with DEC methodology. The Plan meets field and laboratory report quality assurance criteria in Contaminated Sites Program guidance documents, therefore the Plan is approved in accordance with 18 AAC 75.335(b).

Action Date: 1/7/2015
Action: Institutional Control Update
DEC Staff: Bruce Wanstall
Action Description: DEC provided Chad Gubala PhD, representing the Municipality of Skagway, with Notice of Institutional Controls (ICs) placed on the property in a Compliance Order by Consent agreement dated 1989, are now established on the DEC database of contaminated sites. When site cleanup is complete, DEC will issue a closure determination letter describing any remaining contamination at the site subject to the ICs. A Deed Notice with the closure with ICs determination information will be recorded, and a representative of the Municipality of Skagway will sign an agreement to abide by the terms of the ICs in future management of the property. The ICs may be removed in the future if documentation can be provided that shows cleanup levels for unrestricted land use have been established and all hazardous materials are removed from the site. DEC has approved a Sampling and Analysis Plan for the harbor sediments and anticipates reviewing for approval, a sampling plan for the upland property that will adequately characterize contamination associated with site activity that will disturb the surface soils, and perform any necessary cleanup in a timely manner.

Action Date: 1/6/2004
Action: Update or Other Action
DEC Staff: Anne Marie Palmieri
Action Description: Skagway Terminal Co. wants to dredge sediments at the Broadway Dock.

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

It is unknown if sediments contain elevated levels of metals. Staff is requesting sampling prior to dredging.

Contaminants:

Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	<Method 2 Most Stringent
Contaminate Media1:	Soil
Control Type:	Institutional Control Management Plan
Control Details Description1:	Other
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments:	Post-cleanup Baseline Report by D&M 1995 has detectable low levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	<Method 2 Most Stringent
Contaminate Media1:	Soil
Control Type:	Institutional Control Management Plan
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	Post-cleanup Baseline Report by D&M 1995 has detectable low levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	<Method 2 Most Stringent
Contaminate Media1:	Soil
Control Type:	Institutional Control Management Plan
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Post-cleanup Baseline Report by D&M 1995 has detectable low levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: <Method 2 Most Stringent
Contaminate Media1: Soil

Control Type: Other
Control Details Description1: Other
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments: Post-cleanup Baseline Report by D&M 1995 has detectable low levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: <Method 2 Most Stringent
Contaminate Media1: Soil

Control Type: Other
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments: Post-cleanup Baseline Report by D&M 1995 has detectable low levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: <Method 2 Most Stringent
Contaminate Media1: Soil

Control Type: Other
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Post-cleanup Baseline Report by D&M 1995 has detectable low levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Other
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Institutional Control Management Plan
Control Details Description1: Other
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Institutional Control Management Plan
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Institutional Control Management Plan
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Other
Control Details Description1: Other
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Other
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Other
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments: MTG level exceeded in surface sample in boring MW-2 and sample at 18 feet bgs in boring MW-5 in 1995 D&M Report

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Other
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Institutional Control Management Plan
Control Details Description1: Other
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Institutional Control Management Plan
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Institutional Control Management Plan
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Other
Control Details Description1:	Other
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Other
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Other
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Table C
Contaminate Media1: Groundwater

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Other
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: monitor well MW-5

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Table C
Contaminate Media1: Groundwater

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: monitor well MW-5

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Table C
Contaminate Media1: Groundwater

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: monitor well MW-5

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Table C
Contaminate Media1: Groundwater

Control Type: Institutional Control Management Plan
Control Details Description1: Other
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: monitor well MW-5

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Table C
Contaminate Media1: Groundwater

Control Type: Institutional Control Management Plan
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: monitor well MW-5

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Table C
Contaminate Media1: Groundwater

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Control Type:	Institutional Control Management Plan
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	monitor well MW-5
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Table C
Contaminate Media1:	Groundwater
Control Type:	Other
Control Details Description1:	Other
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments:	monitor well MW-5
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Table C
Contaminate Media1:	Groundwater
Control Type:	Other
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	monitor well MW-5

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Table C
Contaminate Media1:	Groundwater
Control Type:	Other
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	monitor well MW-5
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Human Health/Ingestion/Inhalation
Contaminate Media1:	Soil
Control Type:	Other
Control Details Description1:	Other
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments:	Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Human Health/Ingestion/Inhalation
Contaminate Media1:	Soil
Control Type:	Other
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Other
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Institutional Control Management Plan
Control Details Description1: Other
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Contaminate Media1:	Sediment - Marine
Control Type:	Institutional Control Management Plan
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Institutional Control Management Plan
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	<Method 2 Most Stringent
Contaminate Media1:	Soil
Control Type:	Local Ordinances, Databases, Zoning Restrictions
Control Details Description1:	Other
Contaminant CTD:	An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Post-cleanup Baseline Report by D&M 1995 has detectable low levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: <Method 2 Most Stringent
Contaminate Media1: Soil

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments: Post-cleanup Baseline Report by D&M 1995 has detectable low levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: <Method 2 Most Stringent
Contaminate Media1: Soil

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

conditions.

Comments: Post-cleanup Baseline Report by D&M 1995 has detectable low levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Other
Control Details Description1: Other
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Other
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Other
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

documentation must be submitted to DEC within 30 days of well closure.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Other
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Institutional Control Management Plan
Control Details Description1: Other
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Institutional Control Management Plan
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Institutional Control Management Plan
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Other
Control Details Description1:	Other
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Other
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Other
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Other
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Institutional Control Management Plan
Control Details Description1: Other
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

Control Type: Institutional Control Management Plan
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.

Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Site Specific Sediment Criteria
Contaminate Media1: Sediment - Marine

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Control Type:	Institutional Control Management Plan
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Other
Control Details Description1:	Other
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Other
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Other
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Installation of groundwater wells requires DEC coordination for approval before any work begins. Groundwater wells present on-site should be kept locked and access should be coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation must be submitted to DEC within 30 days of well closure.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Human Health/Ingestion/Inhalation
Contaminate Media1:	Soil
Control Type:	Local Ordinances, Databases, Zoning Restrictions
Control Details Description1:	Other
Contaminant CTD:	An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments:	Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Human Health/Ingestion/Inhalation

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Contaminate Media1: Soil

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Excavation / Soil Movement Restrictions
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR: Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments: Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Local Ordinances, Databases, Zoning Restrictions
Control Details Description1: Restricted to Industrial / Commercial Land Use
Contaminant CTD: An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments: Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg

Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Skagway (Nahku) Ore Terminal
Contaminate Level Description1: >Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: Institutional Control Management Plan

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Control Details Description1:	Other
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments:	Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Human Health/Ingestion/Inhalation
Contaminate Media1:	Soil
Control Type:	Institutional Control Management Plan
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Human Health/Ingestion/Inhalation
Contaminate Media1:	Soil
Control Type:	Institutional Control Management Plan
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins. Future land use is limited to industrial only and maintenance of a cap over all contaminated soil is required.
Contaminant CDR:	DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.
Comments:	Post-cleanup sampling in 1995 has residual levels above 1,000mg/kg
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Control Type:	Local Ordinances, Databases, Zoning Restrictions
Control Details Description1:	Other
Contaminant CTD:	An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR:	Installation of groundwater wells requires DEC coordination for approval before any work begins. If groundwater wells are present on-site for monitoring they should be locked and access coordinated with DEC through an approved sample monitoring plan. Groundwater monitoring wells must be decommissioned in accordance with DEC guidance and documentation of closure must submitted to DEC within 30 days of completion.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Local Ordinances, Databases, Zoning Restrictions
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.
Contaminant CDR:	Any plans to excavate soil on the Ore Terminal Property must obtain written authorization from DEC prior to any such activity begins.
Comments:	Concentrations exceed NOAA Threshold and Probable Effect Levels
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Contaminate Name1:	Skagway (Nahku) Ore Terminal
Contaminate Level Description1:	>Site Specific Sediment Criteria
Contaminate Media1:	Sediment - Marine
Control Type:	Local Ordinances, Databases, Zoning Restrictions
Control Details Description1:	Restricted to Industrial / Commercial Land Use
Contaminant CTD:	An industrial cleanup level of 1000 mg/kg lead was approved for the Ore Terminal property in 1989 by ADEC and concurred with by the

SKAGWAY (NAHKU) ORE TERMINAL (Continued) **S104894078**

Skagway City Council via Resolution 89-18R, which restricts the property to industrial land use only, and requires a surface stabilization program that will provide the following: prevention of soil migration by wind, erosion, tracking or any other natural or mechanical means, suitable for long-term purposes, necessary and reasonable public access, if appropriate and not in conflict with principle uses. In addition, a monitoring and control program that provides maintenance of the surface stabilization program that will prevent activities at the ore terminal from re-contaminating municipal lands.

Contaminant CDR: DEC approved site-specific land use cleanup levels of 500 milligrams per kilogram (mg/kg) for residential and 1,000 mg/kg for industrial on the ore terminal Site property. Any future change in land use at the ore terminal property may impact assumptions used in the cleanup level and exposure pathway risk evaluation for this Site. If industrial land use and/or ownership changes, these management conditions may not be protective and ADEC may require additional remediation and revised conditions.

Comments: Concentrations exceed NOAA Threshold and Probable Effect Levels

Inst Control:

Hazard ID: 401
Facility Status: Active
Action: Institutional Control Record Established
Action Date: 12/9/2014
File Number: 1526.38.004

Hazard ID: 401
Facility Status: Active
Action: Institutional Control Update
Action Date: 1/7/2015
File Number: 1526.38.004

Hazard ID: 401
Facility Status: Active
Action: Institutional Control Update
Action Date: 3/5/2015
File Number: 1526.38.004

Hazard ID: 401
Facility Status: Active
Action: Institutional Control Update
Action Date: 2/3/2016
File Number: 1526.38.004

---

3 **CORNER STATION** **LUST U003139387**
NNE **444 4TH AVE** **UST N/A**
1/4-1/2 **SKAGWAY, AK 99840** **Financial Assurance**
0.335 mi.
1767 ft.

Relative: Higher

Actual: 57 ft.

LUST:

Facility Name: CHEVRON - HOOVERS
Facility Status: Cleanup Complete
Record Key: 1993110013401
File ID: 1526.26.003

CORNER STATION (Continued) **U003139387**

Oname: Matthew Smith
Lat/Lon: 59.45624 -135.3185
Lust Event ID: 1193
CS or Lust: LUST
Borough: Skagway Yakutat Ango
Staff: No Longer Assigned
Site Type: Gas Station
Horizontal Datum: NAD83

UST:
Facility ID: 1039
Facility Type: Gas Station
Owner ID: 9255
Owner Name: Matthew Smith
Owner Address: P.O. Box 280
Owner City,St,Zip: Skagway, AK 99840

Tank ID: 1
Tank Status: **Permanently Out of Use**
Tack Capacity: 3000
Tank Product: Gasoline
Installed Date: 01/01/1983
Regulated Tank: Yes

Tank ID: 2
Tank Status: **Permanently Out of Use**
Tack Capacity: 3000
Tank Product: Gasoline
Installed Date: 01/01/1983
Regulated Tank: Yes

Tank ID: 3
Tank Status: **Permanently Out of Use**
Tack Capacity: 1000
Tank Product: Diesel
Installed Date: 01/01/1979
Regulated Tank: Yes

Tank ID: 4
Tank Status: **Currently In Use**
Tack Capacity: 18000
Tank Product: Gasoline
Installed Date: 05/01/1993
Regulated Tank: Yes

AK Financial Assurance 1:
Region: 1
Financial Responsibility: WITH PROOF OF FINANCIAL RESPONSIBILITY
Facility ID: 1039
Facility Type: Gas Station
Owner ID: 9255
Owner Name: Matthew Smith
Owner Addr: P.O. Box 280

CORNER STATION (Continued) **U003139387**

Owner City:	Skagway
Owner State:	AK
Owner Zip:	99840
Owner City,St,Zip:	Skagway, AK 99840
Policy Begin Date:	08/30/2017
Policy End Date:	08/30/2018

---

4 **PETRO MARINE SKAGWAY TRUCK RACK** **SHWS** **S105755269**
NW **10 BEACH ROAD NEAR ORE TERMINAL OFF STATE ST** **N/A**
1/4-1/2 **SKAGWAY, AK 99840**
0.347 mi.
1834 ft.

Relative:
Higher

Actual:
24 ft.

SHWS:

File Number:	1526.38.001
Staff:	Kara Kusche, 9072697530 kara.kusche@alaska.gov
Facility Status:	Active
Latitude:	59.452822
Longitude:	-135.326216
Hazard ID:	2374
Problem:	Fifteen cubic yards of impacted surface soil recovered at 265-gallon diesel spill. Later, in preparation for pouring concrete, additional soil was excavated. Volume now totals about 175 cubic yards stockpiled on-site. Transfer from the Prevention and Emergency Response Program.

Actions:

Action Date:	9/27/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Telecon with Scott at Petro Marine. Follow-up email approval to stop annual leachate sampling from the lined biocell. Water is collected in an oil water separator and then returned to the pile. It is not discharged off-site. Soil sampling results to be sent in no later than two years from date of this entry. Reference email in Outlook site folder this date.

Action Date:	9/17/2002
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Approval given to transport soil out to cardlock area to be placed in a lined cell.

Action Date:	8/29/2016
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	Contacted the RP and found that Carson Dorn Inc. had just sampled the stockpile last week. Soil screen results were encouraging; lab results should be in a few weeks.

Action Date:	8/15/2011
Action:	Report or Workplan Review - Other
DEC Staff:	Todd Blessing
Action Description:	Staff reviewed and approved of Carson and Dorn's (C&D's) Sampling and Analysis Plan, dated August 8, 2011. C&D proposed to collected three soil samples from the treated soil stockpile to be analyzed for DRO, GRO, and BTEX according to DEC approved methods. The sampling will be conducted in accordance with DEC's field sampling guidance.

PETRO MARINE SKAGWAY TRUCK RACK (Continued) **S105755269**

Action Date:	7/2/2010
Action:	Update or Other Action
DEC Staff:	Susan Carberry
Action Description:	File transferred to Anchorage 1/27/2010
Action Date:	7/1/2010
Action:	Site Visit
DEC Staff:	Todd Blessing
Action Description:	DEC staff conducted a site visit on June 29, 2010 and visited spill site as well as landfarming location. DEC staff requested that Mr. Cochran (representative of Petro Marine) till the landfarm area on a monthly basis and then submit a soil sampling plan for DEC review.
Action Date:	6/4/2004
Action:	GIS Position Updated
DEC Staff:	Bill Janes
Action Description:	Biocell located at 59.47189 N, -135.29988 W
Action Date:	6/22/2010
Action:	Update or Other Action
DEC Staff:	Todd Blessing
Action Description:	Jim Beckham provided 2002 soil analytical results for the soil biopile. DRO was nondetect and RRO was detected at a level of 9.6 mg/kg. These samples were not collected according to current DEC guidance and therefore, DEC staff requested that Mr. Beckham provide a work plan to DEC prior to sampling the biopile again.
Action Date:	6/15/2015
Action:	Potentially Responsible Party/State Interest Letter
DEC Staff:	Bruce Wanstall
Action Description:	draft and send DEC PRP letter to facility manager by certified regular mail return receipt requested.
Action Date:	6/11/2014
Action:	Site Visit
DEC Staff:	Bruce Wanstall
Action Description:	Safe view site visit to observe the contaminated soil biocell located at 0.5 mile Klondike Hwy
Action Date:	4/29/2004
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Letter sent to Petro Marine asking about status of the biocell annual sampling.
Action Date:	3/31/2015
Action:	Site Visit
DEC Staff:	Bruce Wanstall
Action Description:	DEC CS & WD staff met with Tim Cochran to inspect the facility and contaminated soil biocell located at point one five mile Klondike Highway
Action Date:	2/26/2008
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bill Janes
Action Description:	Initial ranking with ETM completed.

PETRO MARINE SKAGWAY TRUCK RACK (Continued) **S105755269**

Action Date:	2/10/2012
Action:	Update or Other Action
DEC Staff:	Susan Carberry
Action Description:	Transferred to Juneau CS Office to Sally Schlichting on 2/10/2012
Action Date:	12/23/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Jim Beckham from Petro forwarded 2002 and 2003 water and soi sample data from the biocell. Not enough information to determine if cell has met cleanup levels. Data stored in PDF format in the Outlook site folder.
Action Date:	12/21/2001
Action:	Site Added to Database
DEC Staff:	Bruce Wanstall
Action Description:	Diesel spill to soil.
Action Date:	12/21/2001
Action:	Site Ranked Using the AHRM
DEC Staff:	Anne Marie Palmieri
Action Description:	Preliminary ranking.
Action Date:	12/20/2001
Action:	Cleanup Plan Approved
DEC Staff:	Anne Marie Palmieri
Action Description:	Bioremediation cell plan approved.
Action Date:	11/7/2016
Action:	Report or Workplan Review - Other
DEC Staff:	Bruce Wanstall
Action Description:	ADEC has reviewed the Biocell Sampling Report for the Petro Marine Skagway Plant submitted by Cox Environmental Services. DRO remains slightly above cleanup levels in the biocell soil. ADEC suggested Petro Marine submit for approval, a rigorous sampling method for the synthetic precipitation leaching procedure to test the soil leachate for GRO, DRO, RRO and PAHs. An appropriate non-sensitive, non-eroding, location not near a water body may be appropriate to land spread the 175 cubic yards of biocell soil.
Action Date:	11/7/2016
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bruce Wanstall
Action Description:	A new updated ranking with ETM has been completed for source area 73352 Soil Stockpile.
Action Date:	11/7/2011
Action:	Report or Workplan Review - Other
DEC Staff:	Todd Blessing
Action Description:	DEC reviewed Carson and Dorn's (C&D's) October 17, 2011 soil sampling results report. In this report, C&D documented the collection of three soil samples and an associated duplicate from the biocell. Soil samples were selected based on field screen readings and analyzed for GRO, DRO, RRO, and BTEX. DRO was the only contaminant of concern detected above 18 AAC 75.341 Table B1 or B2 values. DRO levels ranged from 230 mg/kg to 2,800 mg/kg. DEC issued an email commenting on the report and requesting that Petro Marine continue to treat the biocell

PETRO MARINE SKAGWAY TRUCK RACK (Continued) **S105755269**

by aeration and/or fertilizer application.

Action Date: 11/3/2017
Action: Report or Workplan Review - Other
DEC Staff: Joshua Barsis
Action Description: Reviewed the Sampling and Analysis Plan, dated November 2017 for the Petro Marine Skagway Truck Rack site. Proposed activities consist of collecting soil samples from the onsite biocell. Based on field screening results, select soil samples will be submitted for analysis of SPLP for GRO, DRO, RRO, and PAHs. ADEC conditionally approved the work plan requesting that all samples be submitted for soil analysis (AK 101, AK 102, AK 103, EPA 8270E) in addition to SPLP.

Action Date: 10/10/2017
Action: Update or Other Action
DEC Staff: Kathryne Roldan
Action Description: Staff assigned changed from Sally Schlichting to Kara Kusche.

Contaminants:
Staff: Kara Kusche, 9072697530 kara.kusche@alaska.gov

Contaminate Name1: Petro Marine Skagway Truck Rack
Contaminate Level Description1: Not reported
Contaminate Media1: Not reported

Control Type: Not reported
Control Details Description1: Not reported
Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

A5 **SKAGWAY RAILROAD YARD** **SEMS** **1001814650**
North **231 - 2ND AVENUE** **AKSFN1002184**
1/4-1/2 **SKAGWAY, AK 99840**
0.396 mi.
2090 ft. **Site 1 of 3 in cluster A**

Relative:
Higher

Actual:
32 ft.

SEMS:
Site ID: 1002184
EPA ID: AKSFN1002184
Cong District: 0
FIPS Code: Not reported
Latitude: Not reported
Longitude: Not reported
FF: N
NPL: Not on the NPL
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup

SEMS Detail:
Region: 10
Site ID: 1002184
EPA ID: AKSFN1002184
Site Name: SKAGWAY RAILROAD YARD
NPL: N
FF: N
OU: 0
Action Code: OO

SKAGWAY RAILROAD YARD (Continued) **1001814650**

Action Name:	SITE REASS
SEQ:	1
Start Date:	2010-07-01 00:00:00
Finish Date:	9/27/2010
Qual:	AC
Current Action Lead:	EPA Perf In-Hse
Region:	10
Site ID:	1002184
EPA ID:	AKSFN1002184
Site Name:	SKAGWAY RAILROAD YARD
NPL:	N
FF:	N
OU:	0
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1999-11-17 00:00:00
Finish Date:	7/3/2000
Qual:	H
Current Action Lead:	EPA Perf
Region:	10
Site ID:	1002184
EPA ID:	AKSFN1002184
Site Name:	SKAGWAY RAILROAD YARD
NPL:	N
FF:	N
OU:	0
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1999-11-17 00:00:00
Finish Date:	11/17/1999
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	10
Site ID:	1002184
EPA ID:	AKSFN1002184
Site Name:	SKAGWAY RAILROAD YARD
NPL:	N
FF:	N
OU:	0
Action Code:	VA
Action Name:	OTHR CLEANUP
SEQ:	1
Start Date:	2013-01-14 00:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Perf

A6 **RESIDENCE - 363 2ND AVENUE** **SHWS** **S117849274**
North **363 2ND AVENUE** **N/A**
1/4-1/2 **SKAGWAY, AK 99840**
0.396 mi.
2092 ft. **Site 2 of 3 in cluster A**

Relative:
Higher

Actual:
33 ft.

SHWS:

File Number:	1526.38.018
Staff:	Danielle Duncan, 9074655207 danielle.duncan@alaska.gov
Facility Status:	Active
Latitude:	59.453933
Longitude:	-135.319592
Hazard ID:	26332
Problem:	In April, 2014 a cracked fitting was discovered on a fuel line between two aboveground heating oil tanks at 363 2nd Avenue in Skagway. An unknown amount of diesel fuel had been released to the surface at the time of discovery. The fuel line was subsequently repaired, and prior to initial remediation the aboveground storage tanks (ASTs) were removed. In October 2014 approximately 200-cubic yards of contaminated soil was removed from the site and transported to Seattle for disposal. Excavation activities were limited due to the building foundation and presence of the groundwater table. Sample analysis confirmed soil contamination remains above DEC cleanup levels and due to remaining contamination at the soil-groundwater interface, groundwater contamination may also be present but has not been evaluated. The upper floor of the building on the property is used for residential rental units and the lower floor is used as seasonal commercial space.October 2015: Soil contamination remaining in the sidewalls and base of the excavation is in the range of 200-740 mg/kg GRO and DRO contamination in the range of 3,300-7,700 mg/kg. Groundwater contamination is under investigation.

Actions:

Action Date:	9/4/2015
Action:	Site Characterization Workplan Approved
DEC Staff:	Danielle Duncan
Action Description:	Approved Golder's work plan Additional Environmental Investigation at 363 2nd Avenue, Skagway, AK this date. The work plan details the installation and sampling of 3 groundwater monitoring wells in order to determine whether groundwater contamination has occurred and if there is a substantial vapor intrusion risk. The City of Skagway has a Class A water system supplied by 3 groundwater wells and Golder is not aware of any private drinking water wells located down gradient of the site.

Action Date:	9/2/2016
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Rec'd a message from the RP that work will be done (per the approved work plan) on 9/19/16.

Action Date:	8/3/2015
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Spoke to the RP and Golder Associates is preparing a work plan for review. The RP said that no fumes or odor are apparent at/inside the property.

Action Date:	8/28/2015
Action:	Report or Workplan Review - Other

RESIDENCE - 363 2ND AVENUE (Continued) **S117849274**

DEC Staff:	Danielle Duncan
Action Description:	Rec'd Golder's work plan Additional Environmental Investigation at 363 2nd Avenue, Skagway, AK this date.
Action Date:	8/20/2015
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Spoke to Golder - they are preparing a work plan to install monitoring wells and address the vapor intrusion hazard. The building is on a slab foundation.
Action Date:	7/8/2016
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Left message for RP this date.
Action Date:	7/15/2015
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Rec'd corrected report from Golder Associates - the data values in general have decreased.
Action Date:	7/15/2015
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Sent a letter today requesting a work plan within 30 days of receipt to address contamination on the property. Soil contamination remaining in the sidewalls and base of the excavation is in the range of 200-740 mg/kg GRO and DRO contamination in the range of 3,300-7,700 mg/kg. The work plan will include: 1.The installation of groundwater monitoring well(s).2.A drinking water well search to determine whether there are drinking water wells nearby that may become contaminated as a result of this spill. 3.A vapor intrusion hazard investigation.
Action Date:	7/13/2015
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Found mathematical error in Golder Associates report Test pitting and remedial excavation works completed at 363-2nd Avenue, Skagway, Alaska, dated December 22, 2014 and reported to Golder Associates. The issue was that the report author had taken dilution values from the laboratory report and applied them to the data when the laboratory had already done it. I am expecting a revised report soon. The petroleum values will be less than they currently are.
Action Date:	7/12/2016
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Sent 2nd request for cleanup action this date. Certified 7014 2120 0001 4209 8339
Action Date:	6/25/2014
Action:	Potentially Responsible Party/State Interest Letter
DEC Staff:	Mitzi Read
Action Description:	Potentially Responsible Party / State Interest Letter sent to landowner by PERP staff Cheyenne Sanchez.

RESIDENCE - 363 2ND AVENUE (Continued) **S117849274**

Action Date:	5/18/2015
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Was able to contact the RP (via email) and discussed the need for a work plan to install groundwater monitoring wells within 30 days of today's date. The soil contamination left in place is on the order of 33,000-77,000 mg/kg DRO and RRO which presents a significant vapor intrusion hazard. There is an apartment upstairs in the building and the lower floor is used as a store front. I also requested that a drinking water well search be conducted as part of the work. I was told that the site is hooked up to city water.
Action Date:	4/15/2016
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Sent request for cleanup this date. Certified 7014 2120 0001 4209 8247. Rec'd 4/20/16.
Action Date:	4/10/2017
Action:	Site Characterization Report Approved
DEC Staff:	Danielle Duncan
Action Description:	Approved the groundwater report this date. Groundwater contamination (petroleum) above ADEC and vapor intrusion action levels confirmed.
Action Date:	4/10/2017
Action:	Exposure Tracking Model Ranking
DEC Staff:	Danielle Duncan
Action Description:	A new updated ranking with ETM has been completed for source area 79726 Line Between 2 Heating Oil ASTs.
Action Date:	2/12/2016
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Spoke to RP and they will check with Golder regarding the work plan approved back in September and get back with me.
Action Date:	12/15/2017
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	2nd request for a work plan - sent certified and by email. Certified 7014 2120 0001 4210 1497
Action Date:	10/1/2015
Action:	Exposure Tracking Model Ranking
DEC Staff:	Danielle Duncan
Action Description:	A new updated ranking with ETM has been completed for source area 79726 Line Between 2 Heating Oil ASTs.
Action Date:	1/5/2015
Action:	Spill Transferred from Prevention Preparedness and Response Program
DEC Staff:	Mitzi Read
Action Description:	Spill transferred by Cheyenne Sanchez. Spill no. 14119900101; spill date = 1/1/2014; substance = diesel; quantity = unknown; source = fuel line connecting two above ground heating oil tanks.
Action Date:	1/30/2015
Action:	Update or Other Action

RESIDENCE - 363 2ND AVENUE (Continued) **S117849274**

DEC Staff: Danielle Duncan
Action Description: Introduced myself to RP and requested that monitoring wells be installed and a drinking water well search be conducted. RP plans on having the work done in May, but I expect a work plan well before then, and the ground will likely be thawed before then.

Action Date: 1/16/2015
Action: Site Added to Database
DEC Staff: Mitzi Read
Action Description: A new site has been added to the database

Action Date: 1/16/2015
Action: Exposure Tracking Model Ranking
DEC Staff: Mitzi Read
Action Description: Initial ranking with ETM completed for source area id: 79726 name: Line Between 2 Heating Oil ASTs

Contaminants:
Staff: Danielle Duncan, 9074655207 danielle.duncan@alaska.gov

Contaminate Name1: Residence - 363 2nd Avenue
Contaminate Level Description1: Not reported
Contaminate Media1: Not reported

Control Type: Not reported
Control Details Description1: Not reported
Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

A7 **SERVICES UNLIMITED** **SHWS** **S109255379**
North **STATE & SECOND STREETS** **INST CONTROL** **N/A**
1/4-1/2 **SKAGWAY, AK 99840**
0.423 mi.
2234 ft. **Site 3 of 3 in cluster A**

Relative: Higher
Actual: 27 ft.

SHWS:
File Number: 1526.26.005
Staff: IC Unit, 9074655229 dec.icunit@alaska.gov
Facility Status: Cleanup Complete - Institutional Controls
Latitude: 59.454201
Longitude: -135.319952
Hazard ID: 25086
Problem: Gasoline and BTEX contaminated soils were encountered during the closure and replacement of two underground storage tanks (UST) in 1999. Approximately 150 cubic yards of contaminated soil was excavated, stockpiled, and later landspread with DEC approval. Some contamination was left in the ground and new tanks were placed over it. A 2003 investigation showed that the contaminant concentrations had degraded between 70-90 in concentration but had migrated into the groundwater and onto the adjacent property owned by White Pass & Yukon Railroad.

Actions:
Action Date: 9/26/2008
Action: Site Visit
DEC Staff: Evonne Reese

SERVICES UNLIMITED (Continued) **S109255379**

Action Description:	Site visit conducted with Gary Hamilton from Golder Associates to discuss with Darrell and Kareen Hoover the possible excavation of contaminated soil on White Pass property which borders Services Unlimited. At this time the only thing standing in the way of this remedial work is finding a location to place the biocell made up of contaminated soil removed from the excavation. The Hoovers do not have any property where a biocell can be located, so I will check around the office to see if any staff members know of a possible location.
Action Date:	9/10/2008
Action:	Meeting or Teleconference Held
DEC Staff:	Evonne Reese
Action Description:	Met via teleconference with Bill Janes, Ed Hanousek (White Pass) and Gary Hamilton (Golder Associates) regarding soil and groundwater contamination that has migrated onto White Pass property which borders Services Unlimited. White Pass would like the soil contamination removed from their property to prevent any future liability issues. If Darrell Hoover can run the excavator and dispose or stockpile/ treat the soil, White Pass is willing to provide their consultant's services towards getting this soil out of the ground. Darrell Hoover was contacted directly after the meeting and also Ed Hanousek will be contacting him directly. The beginning of October was discussed as a possible time for getting this excavation and sampling done.
Action Date:	8/21/2002
Action:	Update or Other Action
DEC Staff:	Cynthia Pring-Ham
Action Description:	RECKEY has automatically been generated.
Action Date:	7/3/2002
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Staff sent a letter to Darlene Hoover requesting an update on the stockpile and the site. Letter explained that contamination still remains and should be addressed; groundwater samples need to be taken given the high levels of benzene and GRO left at 9-15'.
Action Date:	7/22/2002
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Approval provided to the property owner via DEC letter to dispose of the soil stockpile by using a portion to level out the grade of the offsite property where the soil stockpile has been stored and the remaining soil to be crushed and used as fill for construction related activities. (3/31/2015 Reese QA/QC)
Action Date:	7/19/2002
Action:	Update or Other Action
DEC Staff:	Anne Marie Palmieri
Action Description:	Site visit.
Action Date:	7/18/2000
Action:	Report or Workplan Review - Other
DEC Staff:	Evonne Reese
Action Description:	(Action entered on 3/31/2015 as part of a QA/QC file review) -

SERVICES UNLIMITED (Continued) **S109255379**

sampling performed on the soil stockpile by the property owners with assistance from Golder & Associates (the White Pass Consultant). There are no details regarding sample depth or location. All samples were below cleanup levels except for benzene which were above the migration to groundwater cleanup level.

Action Date: 6/4/2004
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: Project manager transition site visit. Obtained GPS reading

Action Date: 6/23/2008
Action: Update or Other Action
DEC Staff: Evonne Reese
Action Description: Teleconference with Darrel Hoover and Kirn Dhillon (EBA Engineering) regarding future groundwater monitoring.

Action Date: 6/18/2007
Action: Update or Other Action
DEC Staff: Evonne Reese
Action Description: CR check received by Law - $142.76

Action Date: 5/6/1999
Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum
DEC Staff: * Not Assigned
Action Description: Contaminated soil excavated and stockpiled.

Action Date: 5/5/2015
Action: Institutional Control Update
DEC Staff: Evonne Reese
Action Description: Filed the NEC document with the Recorder’s Office on this date.

Action Date: 5/5/1999
Action: Site Added to Database
DEC Staff: * Not Assigned
Action Description: Not reported

Action Date: 5/4/2004
Action: Underground Storage Tank Site Characterization or Assessment
DEC Staff: Bill Janes
Action Description: Supplementary site assessment plan approved by Palmieri.

Action Date: 5/3/2004
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: Palmieri conducted a site visit and meeting with RP

Action Date: 4/26/2007
Action: Update or Other Action
DEC Staff: Evonne Reese
Action Description: Sent letter to the RP to encourage further remediation

Action Date: 4/17/2017
Action: Institutional Control Compliance Review
DEC Staff: Kristin Thompson
Action Description: IC compliance review conducted. Reminder system set to follow-up with the responsible party in 2018.

SERVICES UNLIMITED (Continued) **S109255379**

Action Date:	4/13/2015
Action:	Cleanup Complete Determination Issued
DEC Staff:	Evonne Reese
Action Description:	A Cleanup Complete determination with institutional controls has been applied to this site.
Action Date:	4/13/2015
Action:	Institutional Control Record Established
DEC Staff:	Evonne Reese
Action Description:	Institutional Controls established and entered into the database.
Action Date:	2/16/2005
Action:	Underground Storage Tank Site Characterization or Assessment
DEC Staff:	Bill Janes
Action Description:	Reviewed ACG's draft report and emailed comments to Rob McIntyre. Report recommends monitored natural attenuation.
Action Date:	12/5/2014
Action:	Report or Workplan Review - Other
DEC Staff:	Evonne Reese
Action Description:	Groundwater monitoring completed on November 6, 2014 for sampling location BH1, BH11, and BH15. These are some of the same locations that were used in the 2004 concentrated and wide coverage sampling. All sample results showed non-detect results for GRO and BTEX except for some low hits of toluene which are significantly below cleanup levels and are attributed to cross contamination in the lab. BH 11 and BH 15 are located on the adjacent property owned by White Pass. Arrangements for site closure with institutional controls will be completed in the near future.
Action Date:	12/20/2012
Action:	Meeting or Teleconference Held
DEC Staff:	Evonne Reese
Action Description:	Meeting held in September 2012 at the White Pass offices regarding the issue of placing institutional controls on the White Pass property adjacent to Services Unlimited. White Pass did not agree with leaving the remaining contamination in place and using institutional controls as protection from risk since they do not want to take on the potential liability. There are too many unknowns with the most recent analytical data being from 8 years ago.
Action Date:	12/16/2014
Action:	Exposure Tracking Model Ranking
DEC Staff:	Evonne Reese
Action Description:	A new updated ranking with ETM has been completed for source area 77600 Gasoline USTs.
Action Date:	11/8/2006
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	CR check received by Law - $61.03
Action Date:	11/3/2014
Action:	Update or Other Action
DEC Staff:	Evonne Reese
Action Description:	Informed by the RP that a direct push drill rig is in town working on another project. I contacted the driller and the consultant to see if

SERVICES UNLIMITED (Continued) **S109255379**

groundwater samples in specified locations by using temporary wells would be a possibility while they were in town. They were agreeable and made arrangements with the RP.

Action Date: 10/27/2011
Action: Update or Other Action
DEC Staff: Evonne Reese
Action Description: DEC is investigating the potential of placing institutional controls on this property and the adjoining property (owned by White Pass) in order to change the active status to Cleanup Complete with ICs. Communication with the RP and White Pass occurred during late summer 2011 in the form of letters and telephone conversations. Awaiting word from White Pass before a final decision can be made.

Action Date: 10/2/2001
Action: Update or Other Action
DEC Staff: Cynthia Pring-Ham
Action Description: Changed Project Manager from Paul Horwath to Anne Marie Palmieri

Action Date: 1/31/2013
Action: Update or Other Action
DEC Staff: Evonne Reese
Action Description: Awaiting a drill rig coming to town for another project hoping to piggy-back some limited groundwater sampling at the property boundary and on the adjacent White Pass property in order to obtain some current data. We will inform the RP if we hear of other drilling project going on in Skagway in order to share in the cost of bringing a drill rig to town.

Action Date: 1/23/2013
Action: Update or Other Action
DEC Staff: Evonne Reese
Action Description: Issued a current status letter at the request of the RPs in order to use for property financing.

Action Date: 1/15/2003
Action: Report or Workplan Review - Other
DEC Staff: Evonne Reese
Action Description: At the request of the property owner, Access Consulting from Whitehorse, Yukon issued a Site Assessment Review and Recommendations for the Development of a Corrective Action Plan report. (4/13/2015 Action added in a QA/QC file review).

Action Date: 1/10/2007
Action: Exposure Tracking Model Ranking
DEC Staff: Evonne Reese
Action Description: Baseline ETM ranking complete.

Inst Control:
Hazard ID: 25086
Facility Status: Cleanup Complete - Institutional Controls
Action: Institutional Control Record Established
Action Date: 4/13/2015
File Number: 1526.26.005

Hazard ID: 25086

SERVICES UNLIMITED (Continued) **S109255379**

Facility Status: Cleanup Complete - Institutional Controls
Action: Institutional Control Update
Action Date: 5/5/2015
File Number: 1526.26.005

Hazard ID: 25086
Facility Status: Cleanup Complete - Institutional Controls
Action: Institutional Control Compliance Review
Action Date: 4/17/2017
File Number: 1526.26.005

B8 **SKAGWAY AT&T** **SHWS** **S109256391**
NNW **2ND AND MAIN ST.;** **N/A**
1/4-1/2 **SKAGWAY, AK 99840**
0.466 mi.
2461 ft. **Site 1 of 2 in cluster B**

Relative: Higher
Actual: 21 ft.

SHWS:
File Number: 1526.26.002
Staff: Not reported
Facility Status: Cleanup Complete
Latitude: 59.455138
Longitude: -135.321126
Hazard ID: 24418
Problem: Three Underground Fuel Storage Tanks were closed by removal; diesel contamination of soil was encountered and a volume of 70 cubic yards of soil was excavated and stockpiled. Testing of 70cy stockpile yielded TPH results ranging from 46.3 to 1050 ppm. Appears to be a heavy fuel bearing closer resemblance to bunker than diesel. Proposal to landspread soil to a depth of 8 to oxygenate resident microbes was approved by DEC.

Actions:
Action Date: 8/9/1990
Action: Leaking Underground Storage Tank Corrective Action Underway
DEC Staff: * Not Assigned
Action Description: CAPR; Testing of 70cy stockpile yielded TPH results ranging from 46.3 to 1050 ppm. Appears to be a heavy fuel bearing closer resemblance to bunker than diesel. Propose landspreading to depth of 8 to oxygenate resident microbes.

Action Date: 8/9/1990
Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum
DEC Staff: * Not Assigned
Action Description: LCAU; Landspread soil underwent composite sampling and yielded values below state cleanup levels. NFA recommended.

Action Date: 7/11/1990
Action: Underground Storage Tank Site Characterization or Assessment
DEC Staff: * Not Assigned
Action Description: SA1; 3 UST's removed, diesel contamination encountered, 70 cy soil excavated and stockpiled.

Action Date: 7/11/1990
Action: Site Added to Database
DEC Staff: * Not Assigned
Action Description: Not reported

SKAGWAY AT&T (Continued) **S109256391**

Action Date: 12/10/1992
Action: Site Closure Approved
DEC Staff: * Not Assigned
Action Description: CLOS; State cleanup levels reached for stockpile. No further action necessary.

B9 **SKAGWAY AT&T** **LUST** **S106247560**
NNW **2ND AND MAIN ST.** **N/A**
1/4-1/2 **SKAGWAY, AK 99840**
0.467 mi.
2468 ft. **Site 2 of 2 in cluster B**

Relative: Higher
Actual: 21 ft.

LUST:
Facility Name: SKAGWAY AT&T
Facility Status: Cleanup Complete
Record Key: 1990110019201
File ID: 1526.26.002
Oname: AT&T, Inc.
Lat/Lon: 59.45513 -135.3211
Lust Event ID: 1166
CS or Lust: LUST
Borough: Skagway Yakutat Ango
Staff: No Longer Assigned
Site Type: Unknown
Horizontal Datum: NAD83

C10 **CORNER STATION VEHICLE OVERFILL** **SHWS** **S120900029**
North **444 4TH AVENUE** **N/A**
1/2-1 **SKAGWAY, AK 99840**
0.550 mi.
2903 ft. **Site 1 of 2 in cluster C**

Relative: Higher
Actual: 34 ft.

SHWS:
File Number: 1526.38.020
Staff: Not reported
Facility Status: Cleanup Complete
Latitude: 59.456164
Longitude: -135.318905
Hazard ID: 26702
Problem: On 3/22/17 approximately 15 gallons of diesel fuel were spilled to the concrete apron when a vehicle was overfilled at the Corner Station in Skagway. The vehicle was left unattended and the auto-stop valve failed. Some fuel was collected using a kitty litter type material, and despite an attempt to block the migration, some fuel ran into the storm drain at the corner of 4th Avenue and Main Street and also impacted soil around the sidewalk and stop sign. No sheen was noted in the harbor or Skagway River. Analytical samples have not been collected. The Underground Storage Tank (UST) Facility ID for the Corner Station is 1039.

Actions:
Action Date: 8/17/2017
Action: Report or Workplan Review - Other
DEC Staff: Danielle Duncan
Action Description: On July 9, 2017, Cox Environmental Services collected four surface soil samples and a duplicate from the grassy area where a portion of

CORNER STATION VEHICLE OVERFILL (Continued) **S120900029**

the diesel fuel migrated during the spill. These samples were selected based on field screening readings using a photoionization detector (PID). The samples were analyzed by TestAmerica for gasoline range organics (GRO), diesel range organics (DRO), residual range organics (RRO), benzene, toluene, ethylbenzene, and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs). The results of these analyses found less than 50 milligrams per kilogram (mg/kg) DRO and less than 200 mg/kg RRO which are below the most stringent of 18 AAC 75.340 Method 2 for the Under-40 inch of precipitation climate zone. GRO and BTEX were not detected in the samples and (less than 1 mg/kg) each of several PAHs were detected, also below the most stringent cleanup levels. Therefore, none of the sample results exceeded any of their respective cleanup levels.

Action Date: 8/17/2017
Action: Cleanup Complete Determination Issued
DEC Staff: Danielle Duncan
Action Description: Not reported

Action Date: 8/16/2017
Action: Update or Other Action
DEC Staff: Evonne Reese
Action Description: Site management transferred from Schlichting to Duncan.

Action Date: 6/7/2017
Action: Report or Workplan Review - Other
DEC Staff: Bruce Wanstall
Action Description: Evaluate Sampling and Analysis Plan by Cox Environmental Services and send approval letter by email to consultant copied to the responsible party, DEC unit manager, and RFA.

Action Date: 4/7/2017
Action: Site Added to Database
DEC Staff: Mitzi Read
Action Description: A new site has been added to the database

Action Date: 4/5/2017
Action: Spill Transferred from Prevention Preparedness and Response Program
DEC Staff: Mitzi Read
Action Description: Spill transferred by PPRP staff Gary Cook. Spill no. 17119908101; spill date = 3/22/17; substance = diesel; quantity = ~15 gallons; source = vehicle overfill when left attended and auto-stop valve failed.

Action Date: 3/24/2017
Action: Potentially Responsible Party/State Interest Letter
DEC Staff: Mitzi Read
Action Description: Potentially Responsible Party / State Interest Letter sent to landowner by PPRP staff Gary Cook.

Contaminants:
Staff: Not reported

Contaminate Name1: Corner Station Vehicle Overfill
Contaminate Level Description1: <Method 2 Most Stringent
Contaminate Media1: Soil

CORNER STATION VEHICLE OVERFILL (Continued) **S120900029**

Control Type:	No ICs Required
Control Details Description1:	Movement or use of contaminated material (including on site) in a manner that res
Contaminant CTD:	Not reported
Contaminant CDR:	Not reported
Comments:	Not reported
Staff:	Not reported
Contaminate Name1:	Corner Station Vehicle Overfill
Contaminate Level Description1:	<Method 2 Most Stringent
Contaminate Media1:	Soil
Control Type:	No ICs Required
Control Details Description1:	Advance approval required to transport soil or groundwater off-site.
Contaminant CTD:	Not reported
Contaminant CDR:	Not reported
Comments:	Not reported

11
North
1/2-1
0.555 mi.
2933 ft.

NPS KLONDIKE GOLD RUSH NAT'L PARK - MEYER BUILDING **SHWS** **S111063267**
SW CORNER OF 5TH AVENUE AND STATE STREET **N/A**
SKAGWAY, AK 99840

Relative:
Higher

Actual:
38 ft.

SHWS:

File Number:	1526.38.016
Staff:	Not reported
Facility Status:	Cleanup Complete
Latitude:	59.455960
Longitude:	-135.316705
Hazard ID:	25643
Problem:	The National Park Service (NPS) acquired the Meyer Building and the YMCA, located in the historic district of Skagway, in 2004. The Meyer Building has been used as a butcher shop, retail space, a mechanic garage, and a storage warehouse. The YMCA building, connected to the Meyer Building by a two-foot-long walkway, has been used as a gymnasium, reading room, meat storage, garage, and storage space. The buildings will be renovated and used for a visitor contact station and other administrative activities. A soil sample collected from under the floorboards as part of a Phase One Pre-acquisition Site Assessment conducted in 2004 had a diesel range organics (DRO) concentration of 3,240 mg/Kg. In 2011, the NPS excavated approximately 14 cubic yard of contaminated soil and containerized it for disposal. Four confirmation samples were collected from the excavation limits and analyzed for volatile organic compounds; gasoline, diesel, and residual range organics; ethylene glycol; metals; and polynuclear aromatic hydrocarbons. All results are below applicable cleanup levels.

Actions:

Action Date:	5/6/2011
Action:	Site Characterization Workplan Approved
DEC Staff:	Melody Debenham
Action Description:	Approved work plan to removed petroleum contaminated soil from under the floor of the building.
Action Date:	4/18/2011

NPS KLONDIKE GOLD RUSH NAT'L PARK - MEYER BUILDING (Continued) **S111063267**

Action:	Exposure Tracking Model Ranking
DEC Staff:	Melody Debenham
Action Description:	Initial ranking with ETM completed for source area id: 79075 name: Petroleum-Contaminated Soil - Unknown Source
Action Date:	4/15/2011
Action:	Site Added to Database
DEC Staff:	Mitzi Read
Action Description:	A new site has been added to the database
Action Date:	12/16/2011
Action:	Site Characterization Report Approved
DEC Staff:	Melody Debenham
Action Description:	Approved the soil sampling report documenting removal actions at this site. The NPS excavated approximately 14 cubic yards of contaminated soil and containerized it for disposal. Four confirmation samples were collected from the excavation limits and analyzed for volatile organic compounds; gasoline, diesel, and residual range organics; ethylene glycol; metals; and polynuclear aromatic hydrocarbons. All results are below applicable cleanup levels.
Action Date:	12/16/2011
Action:	Conceptual Site Model Submitted
DEC Staff:	Melody Debenham
Action Description:	A conceptual site model (CSM) was submitted as part of the soil sampling report. The CSM identified incidental soil ingestion and ingestion of groundwater as insignificant pathways. All soil concentrations are below the applicable cleanup levels. Placement of a floor in the building will eliminate the incidental soil ingestion pathway. Groundwater impacts are unlikely, and the groundwater is not currently used as a drinking water source.
Action Date:	1/12/2012
Action:	Cleanup Complete Determination Issued
DEC Staff:	Melody Debenham
Action Description:	Based on a review of the records assocaited with this site, the DEC has determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment.

Contaminants:

Staff:	Not reported
Contaminate Name1:	NPS Klondike Gold Rush Nat'l Park - Meyer Building
Contaminate Level Description1:	<Method 2 Most Stringent
Contaminate Media1:	Soil
Control Type:	No ICs Required
Control Details Description1:	Advance approval required to transport soil or groundwater off-site.
Contaminant CTD:	Not reported
Contaminant CDR:	Not reported
Comments:	Not reported

C12 **CHEVRON - HOOVERS** **SHWS** **S109255276**
North **INTERSECTION OF 4TH AND MAIN STREETS** **N/A**
1/2-1 **SKAGWAY, AK 99840**
0.558 mi.
2944 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
35 ft.

SHWS:

File Number:	1526.26.003
Staff:	Not reported
Facility Status:	Cleanup Complete
Latitude:	59.456243
Longitude:	-135.318531
Hazard ID:	24514
Problem:	1993 Site Assessment for closure by removal of four underground storage tanks (USTs) discovered petroleum release. Release Investigation identified gasoline range (GRO) and diesel range hydrocarbon (DRO) contamination under the former dispenser island. Subsurface soil samples had concentrations of gasoline hydrocarbons of 22,000 milligrams per kilogram (mg/kg) and benzene concentration of 49 mg/kg. One of two soil samples under the diesel UST had a diesel hydrocarbon concentration of 590 mg/kg. Five other soil samples in the UST excavation met applicable cleanup levels and the volume of contaminated material shipped off-site for remediation was 25 cubic yards. Groundwater was not encountered and was not investigated. The depth of the subsurface investigation reached ten feet below ground surface. The groundwater and indoor air vapor intrusion exposure pathways to residual soil contamination are complete.

Actions:

Action Date:	7/13/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	As of this date the requested workplan has not been received.
Action Date:	6/4/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Project manager transition site visit. Obtained GPS reading.
Action Date:	6/21/2012
Action:	Update or Other Action
DEC Staff:	Kristin Thompson
Action Description:	Address updated to reflect accurate site location.
Action Date:	6/10/1993
Action:	Leaking Underground Storage Tank Cleanup Initiated - Petroleum
DEC Staff:	* Not Assigned
Action Description:	LCAU; Laboratory analytical resutls show that stockpile soils achieved Level C cleanup levels in November 93. DEC approved City's request to use the soils as cover for the closeout of the old landfill.
Action Date:	6/10/1993
Action:	Leaking Underground Storage Tank Corrective Action Underway
DEC Staff:	* Not Assigned
Action Description:	CAPR; Contaminated material stockpile will undergo aeration and landspreading at the current location at the Skagway Landfill.
Action Date:	5/9/2011

CHEVRON - HOOVERS (Continued) **S109255276**

Action:	Cleanup Complete Determination Issued
DEC Staff:	Bruce Wanstall
Action Description:	The cleanup actions to date have served to excavate and adequately remove contaminated soil from the site. Based on the information available, DEC has determined no further assessment or cleanup action is required. This determination is in accordance with 18 AAC 78.276(f) and does not preclude DEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment. Although a Corrective Action Complete determination has been granted for this facility, off-site movement or use of potentially contaminated soil in a manner that results in a violation of 18 AAC 70 water quality standards is unlawful and in accordance with 18 AAC 78.600(h) approvals from DEC is required.
Action Date:	5/9/2011
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bruce Wanstall
Action Description:	A new updated ranking with ETM has been completed for source area 77599 Diesel and gasoline USTs and Dispenser Island.
Action Date:	5/8/2009
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bruce Wanstall
Action Description:	A new updated ranking with ETM has been completed for source area 77599 Diesel and gasoline USTs dispenser island for the migration to groundwater pathway.
Action Date:	5/20/2009
Action:	Exposure Tracking Model Ranking
DEC Staff:	Bruce Wanstall
Action Description:	A new updated ranking with ETM has been completed for source area 77599 Diesel and gasoline USTs and Dispenser Island for the vapor intrusion pathway. The subsurface contamination extended beneath the building foundation and the sidewalk; the lateral and vertical limits were not established. The facility currently operates as a restaurant; soil vapors from residual gasoline contamination could pose an exposure risk to the occupants.
Action Date:	5/14/1993
Action:	Update or Other Action
DEC Staff:	* Not Assigned
Action Description:	NOR; Discovered oily soil during tank closure.
Action Date:	5/14/1993
Action:	Site Added to Database
DEC Staff:	* Not Assigned
Action Description:	Not reported
Action Date:	5/14/1993
Action:	Release Investigation
DEC Staff:	* Not Assigned
Action Description:	RELR;
Action Date:	5/14/1993
Action:	Underground Storage Tank Site Characterization or Assessment
DEC Staff:	* Not Assigned

CHEVRON - HOOVERS (Continued) **S109255276**

Action Description:	SA1; Sampling results showed contamination ranging from 38 to 22,000 ppm.
Action Date:	4/8/2011
Action:	Report or Workplan Review - Other
DEC Staff:	Bruce Wanstall
Action Description:	DEC evaluated the Nortech Site Characterization Work Plan for the Chevron - Hoovers LUST Source Area 77599 and provided approval with comment by electronic mail. Borings will be advanced at locations where the residual benzene and gasoline soil contamination exceeded human health based cleanup levels (dispenser island) and residual diesel contamination exceeded migration to groundwater cleanup levels (Tank 4). Sample collection will begin in April 2011.
Action Date:	4/29/2011
Action:	Final Cleanup Report Reviewed
DEC Staff:	Bruce Wanstall
Action Description:	DEC has reviewed Site Assessment Report by Nortech Environmental Engineering introduces new soil data on the petroleum release from regulated UST systems at the facility. The sample data collection methods were performed by qualified person(s) and are consistent with methodology in the DEC approved site assessment work plan and as prescribed in 18 Alaska Administrative Code (AAC) 78.090 and 18 AAC 78.230. The data meet field and laboratory report quality assurance criteria in Contaminated Sites Program guidance documents and the UST Procedures Manual. The Report documents current and historical results of field and laboratory investigation into petroleum release from regulated UST systems as required by 18 AAC 78.230 - 18 AAC 78.280 and 18 AAC 78.600 - 18 AAC 78.625 and therefore meets the final corrective action reporting requirements in 18 AAC 78.276. The greatest concentration of hydrocarbons in the soil borings were found in one sample: GRO at 3.39 mg/kg, DRO at 31.2 mg/kg, benzene at 0.0142 mg/kg, toluene at 0.110 mg/kg, ethylbenzene was not detected and total xylene compounds at 0.2504 mg/kg.
Action Date:	4/29/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Another letter sent to RP requesting a workplan for further corrective action. The RP/former owner was given another 60 days from this date
Action Date:	4/22/2008
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	No contact from the RP and current facility owner since the State Interest letters were mailed certified and the signed return receipt was received by the ADEC;
Action Date:	3/6/2006
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	Project manager transfer from Janes to Wanstall. File review to complete database and site summary updates.
Action Date:	3/3/2008
Action:	Update or Other Action

CHEVRON - HOOVERS (Continued) **S109255276**

DEC Staff: Bruce Wanstall
Action Description: ADEC letter of state interest workplan request mailed certified for signed return receipt to the current and former owners of the facility.

Action Date: 3/16/2006
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: Letter of interest requesting Release Investigation sent the new property owner and copied to the responsible party.

Action Date: 3/10/2011
Action: Meeting or Teleconference Held
DEC Staff: Bruce Wanstall
Action Description: DEC has held teleconference discussions with the responsible party and with environmental consultants to discuss UST Site Assessment and Final Reporting requirements for a workplan to investigate subsurface conditions on the property at the UST release site.

Action Date: 2/22/2008
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: ADEC letter requested a joint site investigation by the current and former owner into the status of the historic spill and out-of-service regulated underground storage tanks and dispensers.

Action Date: 12/30/2002
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: Changed PM from Janes to Palmieri

Action Date: 11/21/2007
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: The DEC wrote letters to both the current owner and former owner/operator informing them of the concern that the DEC has with petroleum contamination that remains on the property from leaking underground storage tanks. The letters explain the CS Cleanup and Cost Recovery Processes referenced in regulation, with State Interest. In July 2007, an ADEC NOV was issued to the current operator of the Corner Station for not meeting UST and Financial Responsibility standards for underground storage tanks currently in-place that may contain fuel.

Action Date: 11/20/1997
Action: Update or Other Action
DEC Staff: * Not Assigned
Action Description: ADEC sends Notification of Intent to Cost Recover Letter to Current Owner: CARL & DARLENE HOOVER

Action Date: 11/2/2007
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: Met with IPP and UST staff to review the status of ADEC correspondence with the new operator Matthew Smith. Copies of letters were exchanged; the Bayliss Site Assessment was scanned from the LUST file and sent to UST and IPP staff.

CHEVRON - HOOVERS (Continued) **S109255276**

Action Date:	10/2/2001
Action:	Update or Other Action
DEC Staff:	Cynthia Pring-Ham
Action Description:	Changed Project Manager from Paul Horwath to Bill Janes
Action Date:	1/7/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Letter sent to RP requesting a workplan for additional remediation be submitted within 60 days
Action Date:	1/25/1994
Action:	Leaking Underground Storage Tank Corrective Action Underway
DEC Staff:	Bruce Wanstall
Action Description:	ADEC approved confirmation sample data on the contaminated soil aeration cell and final disposition landspreading as cap material at the Skagway landfill.
Action Date:	1/10/2007
Action:	Exposure Tracking Model Ranking
DEC Staff:	Evonne Reese
Action Description:	Baseline ETM ranking complete.

D13 **SKAGWAY PUBLIC WORKS MAINTENANCE SHOP** **SHWS** **S109256742**
North **5TH AND ALASKA STREET - LOTS 7 - 10 OF BLOCK 10** **N/A**
1/2-1 **SKAGWAY, AK 99840**
0.639 mi.
3375 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
25 ft.

SHWS:

File Number:	1526.26.004
Staff:	Not reported
Facility Status:	Cleanup Complete
Latitude:	59.457468
Longitude:	-135.318907
Hazard ID:	24944
Problem:	BELOW MATRIX A LEVELS. No scoresheet. May 1, 1998 all 3 tanks (1 diesel, 2 gasoline) were removed, analytical testing showed excavation and stockpile met cleanup levels. SA 8/26/91 Need to review SA Report and issue NFA. Farnell was last staff assigned.

Actions:

Action Date:	5/20/1998
Action:	Leaking Underground Storage Tank Cleanup Initiated - Petroleum
DEC Staff:	* Not Assigned
Action Description:	Not reported
Action Date:	5/20/1998
Action:	Site Closure Approved
DEC Staff:	* Not Assigned
Action Description:	Not reported
Action Date:	5/20/1998
Action:	Site Added to Database
DEC Staff:	* Not Assigned
Action Description:	Not reported

SKAGWAY PUBLIC WORKS MAINTENANCE SHOP (Continued) **S109256742**

Action Date:	11/25/2016
Action:	Update or Other Action
DEC Staff:	Kristin Thompson
Action Description:	Administrative update: the hard file and closure documentation for this site could not be located in the Juneau office.

14
NNE
1/2-1
0.640 mi.
3377 ft.

ALASKA LIQUOR STORE HOT **SHWS** **S108670385**
290 2ND AVENUE 2ND AVENUE AND BROADWAY STREET **N/A**
SKAGWAY, AK 99840

Relative:
Higher

Actual:
45 ft.

SHWS:

File Number:	1526.38.014
Staff:	Not reported
Facility Status:	Cleanup Complete
Latitude:	59.453740
Longitude:	-135.318830
Hazard ID:	4450
Problem:	Due to a line failure, up to 250 gallons of diesel were released from an aboveground heating oil tank into the crawlspace beneath the building. DEC requested the soil be removed from the site to reduce the risk of exposure to the fuel contamination. The facility manager responded by hand-removing approximately 10 tons of contaminated soil from the crawlspace to a depth of four feet below ground surface. The contaminated soil was transferred to a shipping container and was sent to Waste Management s Arlington, Oregon disposal facility for remedial treatment.

Actions:

Action Date:	8/27/2007
Action:	Exposure Tracking Model Ranking
DEC Staff:	Mitzi Read
Action Description:	Initial ranking completed.

Action Date:	8/23/2010
Action:	Update or Other Action
DEC Staff:	Bruce Wanstall
Action Description:	Evaluate the Site Assessment and contaminated soil removal workplan for status of the cleanup and off-site disposal; inquire with consultant Nortech on status of a Final Report and fate of the contaminated material.

Action Date:	8/21/2007
Action:	Site Added to Database
DEC Staff:	Mitzi Read
Action Description:	Site added to the database.

Action Date:	8/20/2007
Action:	Spill Transferred from Prevention Preparedness and Response Program
DEC Staff:	Mitzi Read
Action Description:	Site transferred by PERP staff Scot Tiernan. Spill No. 07119917902; Spill Date 6/28/07; Substance = Diesel; Quantity = ~250 gallons; PERP File No. 1526.02.036.

Action Date:	4/22/2008
Action:	Update or Other Action

ALASKA LIQUOR STORE HOT (Continued) **S108670385**

DEC Staff: Bruce Wanstall
Action Description: ADEC received a proposed contaminated soil disposal plan for review and comment.

Action Date: 4/17/2008
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: The responsible party contacted ADEC to discuss site cleanup workplan and contaminated soil disposal options. Certified letter return receipt was received by the ADEC 3/26/08.

Action Date: 4/1/2008
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: ADEC reviewed the status of the site cleanup and recent correspondence with the responsible party. Contact the apparent environmental consultant concerning additional action at the site. Copy of each of the ADEC data request letters mailed to ALS in November 2007 and March 2008 were forwarded to Nortech via email

Action Date: 3/24/2008
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: ADEC letter was sent today requesting information within 60 days on the cleanup remedy and site controls taken on the property by the responsible party/owner/operator. Oil spill site conditions may warrant that ADEC take the lead conducting remedial action on the property.

Action Date: 2/15/2012
Action: Cleanup Complete Determination Issued
DEC Staff: Bruce Wanstall
Action Description: The contaminated soil was transferred to a shipping container and was sent to Waste Management???s Arlington, OR disposal facility for remedial treatment. Based on the information provided to date, the DEC has determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment, and this site will be closed.

Action Date: 2/1/2012
Action: Exposure Tracking Model Ranking
DEC Staff: Bruce Wanstall
Action Description: An updated ranking with ETM has been finalized for source area 75437 Aboveground Diesel HOT.

Action Date: 11/21/2007
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: DEC letter of State Interest request for site assessment was sent to G & C Inc relating to a heating oil spill that migrated into soil beneath structures on the property.

Action Date: 1/29/2008
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: Met with the PERP staff project manager to discuss the level of urgency that may be necessary to address the spill of several hundred

ALASKA LIQUOR STORE HOT (Continued) **S108670385**

gallons of heating oil into the building crawlspace; discuss with Jason at Nortech who was involved with response actions; a vapor barrier (plastic) is the site control used to limit vapor intrusion; the crawlspace is very shallow.

Action Date: 1/25/2012
Action: Final Cleanup Report Reviewed
DEC Staff: Bruce Wanstall
Action Description: DEC has approved the Final Cleanup Report by Nortech Environmental Engineering for the cleanup process conducted at the facility located on 290 2nd Ave in Skagway. Closure samples collected at the perimeter of the hand-excavated removal site in the crawlspace indicate that the cleanup was successful in capturing all accessible contaminated material. A minor quantity of contaminted material remains under the concrete foundation wall in concentration between Method Two migration to groundwater and ingestion soil cleanup levels. It was not feasible to remove this material without threatening the stability of the building. A cleanup complete determination is recommended.

Action Date: 1/23/2008
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: Received Nortech Site Assessment Report; laboratory data are acceptable and are adequate to determine that 30-50 cubic yards of heavily contaminated material is present beneath the building in the crawlspace. Corrective action is recommended and suggestion are made to the responsible party. Assessment of the oil impacts to the building/property was conducted in July, 2007.

Contaminants:
Staff: Not reported

Contaminate Name1: Alaska Liquor Store HOT
Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human Health/Ingestion/Inhalation
Contaminate Media1: Soil

Control Type: No ICs Required
Control Details Description1: Advance approval required to transport soil or groundwater off-site.
Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: The concentrations of DRO in the confirmation soil samples collected from soil remaining at the site were 211 mg/kg, 204 mg/kg, 403 mg/kg and 2,380 mg/kg. The 2,380-mg/kg result was in soil collected at a depth of four feet. This soil, located under the concrete foundation wall, is a de minimis quantity, which could not be removed without threatening the stability of the building.

D15 **SKAGWAY PUBLIC WORKS SHOP** **SHWS S109255576**
North **PUBLIC WORKS SHOP BLOCK 10 LOT 8** **LUST N/A**
1/2-1 **SKAGWAY, AK 99840**
0.645 mi.
3408 ft. **Site 2 of 2 in cluster D**

Relative: Higher
Actual: 21 ft.

SHWS:

File Number:	1526.26.007
Staff:	Not reported
Facility Status:	Cleanup Complete
Latitude:	59.457596
Longitude:	-135.319439
Hazard ID:	23080
Problem:	Three tanks removed with minimal petroleum contamination present in 1998. Soils put back in excavation.

Actions:

Action Date:	8/21/2002
Action:	Update or Other Action
DEC Staff:	Cynthia Pring-Ham
Action Description:	RECKEY has automatically been generated.
Action Date:	7/14/2004
Action:	Leaking Underground Storage Tank Cleanup Initiated - Petroleum
DEC Staff:	Bill Janes
Action Description:	Administrative entry only.
Action Date:	7/14/2004
Action:	Site Closure Approved
DEC Staff:	Bill Janes
Action Description:	Administrative closure - No file exists on this site and contamination appears to be deminimis.
Action Date:	5/1/1998
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	1 gasoline tank and 2 diesel tanks pulled this date. Analytical tesing showed excavation and stockpile met cleanup levels. Still need to review May 1, 1998 site assessment report before issuing NFA (per Dick Farnell).
Action Date:	3/12/2002
Action:	Site Added to Database
DEC Staff:	* Not Assigned
Action Description:	Not reported
Action Date:	11/25/2016
Action:	Update or Other Action
DEC Staff:	Kristin Thompson
Action Description:	Administrative update: as this site was administratively closed, no closure documentation was issued for the site.

LUST:

Facility Name:	SKAGWAY PUBLIC WORKS SHOP
Facility Status:	Cleanup Complete
Record Key:	2002110007102
File ID:	1526.26.007
Oname:	City Of Skagway

SKAGWAY PUBLIC WORKS SHOP (Continued) **S109255576**

Lat/Lon:	59.45759 -135.3194
Lust Event ID:	2846
CS or Lust:	LUST
Borough:	Skagway Yakutat Ango
Staff:	No Longer Assigned
Site Type:	Unknown
Horizontal Datum:	NAD83

16
NNE
1/2-1
0.731 mi.
3859 ft.

SKAGWAY WESTOURS BUS FACILITY **SHWS** **S109256431**
EAST 9TH OR 10TH BETWEEN SPRING STREET AND BROADWAY **N/A**
SKAGWAY, AK 99840

Relative:
Higher

Actual:
47 ft.

SHWS:

File Number:	1526.26.001
Staff:	Not reported
Facility Status:	Cleanup Complete
Latitude:	59.456963
Longitude:	-135.309748
Hazard ID:	24478
Problem:	Farnell was last staff assigned.

Actions:

Action Date:	9/26/1989
Action:	Update or Other Action
DEC Staff:	* Not Assigned
Action Description:	NOR;
Action Date:	9/14/1995
Action:	Update or Other Action
DEC Staff:	Jill Taylor
Action Description:	ESL Biocell Closure Sampling plan submitted to Dick Farnell, ADEC
Action Date:	7/22/1993
Action:	Long Term Monitoring Established
DEC Staff:	Jill Taylor
Action Description:	ESL letter to Rancy Rice providing results of the first semi-annual groundwater monitoring event.
Action Date:	7/20/1990
Action:	Update or Other Action
DEC Staff:	Jill Taylor
Action Description:	Letter from Randy Rick to Jim Kross accepting ESL remedial action plan.
Action Date:	7/18/2002
Action:	Update or Other Action
DEC Staff:	Jill Taylor
Action Description:	Letter from Anne Marie requesting samples to be collected, and possible site closure.
Action Date:	6/4/2004
Action:	Update or Other Action
DEC Staff:	Bill Janes
Action Description:	Project manager transition site vist. Site back to Janes.
Action Date:	6/22/2001

SKAGWAY WESTOURS BUS FACILITY (Continued) **S109256431**

Action: Update or Other Action
DEC Staff: Jill Taylor
Action Description: Letter to Paul Horwath stating that DRO not detected in groundwater sampling results.

Action Date: 6/17/2005
Action: Long Term Monitoring Complete
DEC Staff: Evonne Reese
Action Description: Entered by E. Reese 1/24/06

Action Date: 6/17/2005
Action: Site Closure Approved
DEC Staff: Jill Taylor
Action Description: Closure Letter issued.

Action Date: 5/4/1998
Action: Update or Other Action
DEC Staff: Jill Taylor
Action Description: Dick Farnell phone conversation with Amelia Shevenall contradicts Gran Lawson report and states that sheen was petroleum and odor was observed. Leaving in question whether Holland America spill is impacting Pullen Creek.

Action Date: 5/22/1990
Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum
DEC Staff: * Not Assigned
Action Description: LCAU; As of 1/21/94, soil at the treatment system in Skagway was still not remediated to acceptable levels. DEC approved using the soil as cover ath the old Skagway landfill where it will continue to undergo some aerobic degradation.

Action Date: 5/22/1990
Action: Underground Storage Tank Site Characterization or Assessment
DEC Staff: * Not Assigned
Action Description: SA1;

Action Date: 5/1/1998
Action: Update or Other Action
DEC Staff: Jill Taylor
Action Description: Dick Farnell generated a memo to the file identifying potential petroleum sheen in Pullen Creek. He talked with Skagway City PW director Grant Lawson and concludes that sheen is minderal in nature rather than petroleum.

Action Date: 4/29/2004
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: Letter from Palmieri to Dan Grausz notifiying of project manager change.

Action Date: 4/20/1990
Action: Leaking Underground Storage Tank Corrective Action Underway
DEC Staff: * Not Assigned
Action Description: CAPR;

Action Date: 4/15/1993
Action: Leaking Underground Storage Tank Corrective Action Underway

SKAGWAY WESTOURS BUS FACILITY (Continued) **S109256431**

DEC Staff: Jill Taylor
Action Description: ESL letter to Randy Rice,. Randy signs on to letter concurring with ESL recommendation for corrective actions at the site.

Action Date: 4/10/1998
Action: Update or Other Action
DEC Staff: Jill Taylor
Action Description: Amelia Shevenell with Carson & Dorn reports a suspected petroleum sheen in Pullen Creek to ADEC.

Action Date: 2/10/1994
Action: Update or Other Action
DEC Staff: Jill Taylor
Action Description: Randy Rice approves proposal to dispose of the contaminated soil in the Skagway landfill.

Action Date: 12/30/2002
Action: Update or Other Action
DEC Staff: Bill Janes
Action Description: Changed PM from Janes to Palmieri

Action Date: 12/28/2004
Action: Update or Other Action
DEC Staff: Jill Taylor
Action Description: Report from Holland America with required sampling results and request for closure.

Action Date: 11/25/2016
Action: Update or Other Action
DEC Staff: Kristin Thompson
Action Description: Administrative update: the closure documentation for this site could not be located.

Action Date: 11/23/1989
Action: Site Added to Database
DEC Staff: * Not Assigned
Action Description: Not reported

Action Date: 11/20/1997
Action: Update or Other Action
DEC Staff: * Not Assigned
Action Description: ADEC sends Notification of Intent to Cost Recover Letter to Current Owner: HOLLAND AMERICA LINE - WESTOURS

Action Date: 10/2/2001
Action: Update or Other Action
DEC Staff: Cynthia Pring-Ham
Action Description: Changed Project Manager from Paul Horwath to Bill Janes

Action Date: 1/31/1996
Action: Update or Other Action
DEC Staff: Jill Taylor
Action Description: Approval of a modified plan for the remediation of the excavation soil to be used as a base for a parking lot.

Action Date: 1/20/1993
Action: Update or Other Action

SKAGWAY WESTOURS BUS FACILITY (Continued) **S109256431**

DEC Staff: Jill Taylor
Action Description: Letter from ESL to ADEC presenting the results of sampling of the groundwater remediation system.

17
North
1/2-1
0.762 mi.
4025 ft.

RESIDENCE - 475B 7TH AVENUE **SHWS S109255402**
475B 7TH AVENUE **INST CONTROL N/A**
SKAGWAY, AK 99840

Relative: Higher

Actual: 16 ft.

SHWS:
File Number: 1526.38.015
Staff: Danielle Duncan, 9074655207 danielle.duncan@alaska.gov
Facility Status: Active
Latitude: 59.458756
Longitude: -135.314704
Hazard ID: 25184
Problem: On 9/6/2007, the owner of a residential rental property removed heating fuel from an aboveground home heating oil tank, placed it in trash cans, and did not cover the cans with lids. Rain water displaced the fuel and it was released to the ground. The contamination may be impacting an adjacent property.The ADEC has made numerous attempts to initiate a cleanup of the property and has filed a Notice of Environmental Contamination on the property.

Actions:
Action Date: 9/9/2008
Action: Site Added to Database
DEC Staff: Mitzi Read
Action Description: A new site has been added to the database

Action Date: 9/9/2008
Action: Exposure Tracking Model Ranking
DEC Staff: Mitzi Read
Action Description: Initial ranking with ETM completed for source area id: 78481 name: Heating Fuel Removed From AST

Action Date: 9/25/2014
Action: Exposure Tracking Model Ranking
DEC Staff: Danielle Duncan
Action Description: A new updated ranking with ETM has been completed for source area 78481 Heating Fuel Removed From AST.

Action Date: 9/2/2008
Action: Spill Transferred from Prevention Preparedness and Response Program
DEC Staff: Mitzi Read
Action Description: Spill transferred by PERP staff Sarah Moore. Spill Date = 9/6/07; Spill Number = 07119924903; Substance = Diesel; Quantity = ~80 Gallons. At the time of spill transfer, no cleanup or sampling had occurred.

Action Date: 9/11/2013
Action: Update or Other Action
DEC Staff: Kristin Thompson
Action Description: Staff changed from Erik Norberg to Denise Elston.

Action Date: 8/5/2015

RESIDENCE - 475B 7TH AVENUE (Continued) **S109255402**

Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Requested work plan via certified letter this date. Certified letter was received by RP on 8/12/15.
Action Date:	6/4/2014
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Obtained pictures from PERP response and mailed to RP.
Action Date:	5/12/2014
Action:	Institutional Control Record Established
DEC Staff:	Danielle Duncan
Action Description:	The ownership of the property is currently unclear; issued the following NEC:NOTICE OF ENVIRONMENTAL CONTAMINATIONAs required by the Alaska Department of Environmental Conservation (ADEC), Grantor, pursuant to 18 AAC 75.375 b (3), Darlene Hoover, Grantee, as the owner [and operator] of the subject property, hereby provides public notice that the property located at: 475 B 7th Avenue, Skagway, AK 99840 has been subject to a discharge or release, regulated under 18 AAC 75, Article 3, as revised April 8, 2012. On September 10, 2007, a pollution incident at 475 B 7th Avenue, Skagway, AK, was reported to the ADEC by the Skagway fire chief. Reportedly, heating oil was removed from a tank and stored in trash barrels and left exposed to the rain. Rain displaced approximately 80 gallons of heating fuel and may have impacted neighboring properties. Numerous attempts were made to contact the property owner and engage him in cleanup efforts at that time, however, no further characterization or cleanup was completed according to ADEC records. Due to the incomplete characterization and cleanup work at this site as required under 18 AAC 75, exposure risks to human health and the environment are determined to be present.
Action Date:	5/11/2015
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Last week I spoke with a gentlemen at Rescon who was going to do the Hoovers a personal favor and do some geo-drilling on site, however, I told him that geo-drilling was probably too expensive for the size and scope of this cleanup. What we need is some test pits in the known location(s) of the spill and an excavation using PID readings to guide it. Talked to D. Hoover today and she will call a consultant and get a work plan for test pits etc.
Action Date:	2/1/2018
Action:	Report or Workplan Review - Other
DEC Staff:	Danielle Duncan
Action Description:	Approved a corrective action plan to excavate the contaminated soil.
Action Date:	12/4/2017
Action:	Update or Other Action
DEC Staff:	Danielle Duncan
Action Description:	Per the consultant: NORTECH has met our current scope of work and has not received approval to extend that scope of work to include writing a new work plan or conducting additional work at the Site. However, the responsible party is currently traveling internationally and communication with him is not consistent. As we have not received

RESIDENCE - 475B 7TH AVENUE (Continued) **S109255402**

permission to extend our scope of work, NORTECH will not be able to meet the January 1, 2018 deadline that the ADEC set down for the new work plan. NORTECH does not currently have a timeline for writing a work plan as Mr. Hoover???s availability to respond to emails while he is traveling is not known. NORTECH will update the ADEC once we hear back, and will work with the ADEC to create a timeline for submittal of a new work plan and completion of the work authorized under the new work plan.

Action Date: 12/22/2017
Action: Update or Other Action
DEC Staff: Danielle Duncan
Action Description: RP is unable to get a work plan - will get one after the first of the year.

Action Date: 11/3/2016
Action: Update or Other Action
DEC Staff: Danielle Duncan
Action Description: Requested a work plan within 30 days this date. Certified letter 7014 2120 0001 1008

Action Date: 11/13/2017
Action: Update or Other Action
DEC Staff: Danielle Duncan
Action Description: Nortech is working on a cleanup plan.

Action Date: 10/31/2017
Action: Report or Workplan Review - Other
DEC Staff: Danielle Duncan
Action Description: Approved a report of 7 soil borings in the area of the petroleum release at 1-2 feet (ft.) below ground surface (bgs). Soil from the base of each boring was field screened using a photoionization detector (PID). Two analytical samples and a duplicate were collected and analyzed; both of the samples had DRO above the ADEC cleanup level of 250 mg/kg. Sample CZ-01 had a concentration of 8,300 mg/kg and CZ-06 had a concentration of 530 mg/kg. These results indicate that there is contamination above ADEC cleanup levels and that the contamination may have migrated onto the neighbor???s property.

Action Date: 10/1/2015
Action: Update or Other Action
DEC Staff: Danielle Duncan
Action Description: Requested a work plan within 30 days this date. Certified letter 7014 0150 1161 6838

Action Date: 1/30/2018
Action: Exposure Tracking Model Ranking
DEC Staff: Danielle Duncan
Action Description: A new updated ranking with ETM has been completed for source area 78481 Heating Fuel Removed From AST.

Action Date: 1/21/2011
Action: Update or Other Action
DEC Staff: Bruce Wanstall
Action Description: DEC addressed a professional inquiry (property investor Phase I Study) into any potential impacts to neighboring properties that may occur as a result of the oil spill. The responsible party was

RESIDENCE - 475B 7TH AVENUE (Continued) **S109255402**

non-responsive when the site was transfer from the SPAR emergency response team to the CS Program in fall 2008. Using evidence of the spill event and personal knowledge of the area, a risk evaluation was prepared for the inquiry.

Contaminants:

Staff:	Danielle Duncan, 9074655207 danielle.duncan@alaska.gov
Contaminate Name1:	Residence - 475B 7th Avenue
Contaminate Level Description1:	Not reported
Contaminate Media1:	Not reported
Control Type:	Notice of Environmental Contamination (Deed Notice)
Control Details Description1:	Groundwater Use Restrictions
Contaminant CTD:	Not reported
Contaminant CDR:	Not reported
Comments:	Not reported
Staff:	Danielle Duncan, 9074655207 danielle.duncan@alaska.gov
Contaminate Name1:	Residence - 475B 7th Avenue
Contaminate Level Description1:	Not reported
Contaminate Media1:	Not reported
Control Type:	Notice of Environmental Contamination (Deed Notice)
Control Details Description1:	Excavation / Soil Movement Restrictions
Contaminant CTD:	Not reported
Contaminant CDR:	Not reported
Comments:	Not reported

Inst Control:

Hazard ID:	25184
Facility Status:	Active
Action:	Institutional Control Record Established
Action Date:	5/12/2014
File Number:	1526.38.015

18
NNE
1/2-1
0.862 mi.
4549 ft.

SKAGWAY FORMER MEDICAL CLINIC **SHWS** **S121726170**
310 11TH AVENUE **N/A**
SKAGWAY, AK 99840

Relative:
Higher

Actual:
46 ft.

SHWS:

File Number:	1526.38.021
Staff:	Danielle Duncan, 9074655207 danielle.duncan@alaska.gov
Facility Status:	Active
Latitude:	59.459034
Longitude:	-135.309230
Hazard ID:	26822
Problem:	In November 2017 petroleum-contaminated soil was discovered during geotechnical activities at the former location of the Dahl Memorial Clinic on 11th Avenue in Skagway. A new clinic was constructed at an alternate location on 14th Avenue and the operation moved in June 2010. The property at the 11th Avenue location was being evaluated for potential new construction when diesel range organics and

SKAGWAY FORMER MEDICAL CLINIC (Continued) **S121726170**

naphthalene were confirmed in soil above DEC cleanup levels for migration to groundwater but below human health cleanup levels. The City of Skagway plans to characterize the contamination in preparation for development of the property in the future.

Actions:

Action Date:	12/28/2017
Action:	Potentially Responsible Party/State Interest Letter
DEC Staff:	Danielle Duncan
Action Description:	Sent today.

Action Date:	12/28/2017
Action:	Exposure Tracking Model Ranking
DEC Staff:	Danielle Duncan
Action Description:	Initial ranking with ETM completed for source area id: 80184 name: Skagway Former Medical Clinic

Action Date:	12/22/2017
Action:	Site Added to Database
DEC Staff:	Mitzi Read
Action Description:	A new site has been added to the database

Contaminants:

Staff:	Danielle Duncan, 9074655207 danielle.duncan@alaska.gov
Contaminate Name1:	Skagway Former Medical Clinic
Contaminate Level Description1:	Not reported
Contaminate Media1:	Not reported
Control Type:	Not reported
Control Details Description1:	Not reported
Contaminant CTD:	Not reported
Contaminant CDR:	Not reported
Comments:	Not reported

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SKAGWAY	S120769481	SERVICES UNLIMITED	STATE & SECOND STREETS	99840	LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 07/30/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 07/30/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/16/2018
Date Data Arrived at EDR: 02/22/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 78

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/09/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites Database

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/09/2018
Number of Days to Update: 8

Source: Department of Environmental Conservation
Telephone: 907-451-2143
Last EDR Contact: 05/01/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/15/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 17

Source: Department of Environmental Conservation
Telephone: 907-269-7632
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 01/09/2047
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 02/12/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/06/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 907-465-5301
Last EDR Contact: 05/15/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/16/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/06/2018
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/24/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/16/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/12/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/06/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 907-269-7504
Last EDR Contact: 05/15/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

AST: Regulated Aboveground Storage Tanks
The list covers "regulated" facilities with storage capacities above 10,000 barrels (or 5,000 barrels of crude).

Date of Government Version: 01/05/2005
Date Data Arrived at EDR: 01/06/2005
Date Made Active in Reports: 02/02/2005
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 907-465-5231
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 134

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/16/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/16/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/13/2018
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing

A listing of sites with engineering controls in place included in the Contaminated Sites.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/09/2018
Number of Days to Update: 8

Source: Department of Environmental Conservation
Telephone: 907-451-2143
Last EDR Contact: 05/01/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

Inst Control: Contaminated Sites with Institutional Controls
Contaminated sites that have institutional controls.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/09/2018
Number of Days to Update: 8
Source: Department of Environmental Conservation
Telephone: 907-451-2143
Last EDR Contact: 05/01/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program sites
Sites involved in the Voluntary Cleanup Program.

Date of Government Version: 02/26/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 03/21/2018
Number of Days to Update: 20
Source: Department of Environmental Conservation
Telephone: 907-451-2143
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Identified and/or Proposed Brownfields Sites
Brownfield properties are defined by U.S Environmental Protection Agency (EPA) as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contamination." DEC is developing resources to assist eligible entities in Alaska in applying for EPA brownfields grants. The program also will provide technical assistance and perform some site assessments, The purpose of these assessments is to assist local redevelopment efforts on previously contaminated properties that are vacant or underused.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/09/2018
Number of Days to Update: 8
Source: Department of Environmental Conservation
Telephone: 907-451-2166
Last EDR Contact: 05/01/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/21/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities
A listing of Recycling centers in the state of Alaska.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 12/30/2014
Date Made Active in Reports: 02/02/2015
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 907-269-7802
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/30/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/04/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: No Update Planned

CDL: Illegal Drug Manufacturing Sites

A list of properties that have been determined to be illegal drug manufacturing sites.

Date of Government Version: 02/12/2018
Date Data Arrived at EDR: 02/13/2018
Date Made Active in Reports: 03/21/2018
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 907-269-7543
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 02/06/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 94

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

SPILLS: Spills Database

Oil and hazardous substance releases to be reported to the Department of Environmental Conservation.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 05/09/2018
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 907-465-5242
Last EDR Contact: 03/29/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 07/21/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 36

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/11/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/15/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/08/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/09/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 02/06/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 94

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/20/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/09/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/04/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/27/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 01/04/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/05/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 79

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/11/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 02/06/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/25/2018
Date Data Arrived at EDR: 02/28/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 72

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/08/2018
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 87

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 28

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018
Date Data Arrived at EDR: 03/17/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 06/01/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 73
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/30/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/20/2018
Date Data Arrived at EDR: 02/21/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 30
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/23/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Quarterly

AIRS: AIRS Facility Listing
A listing of permitted airs facilities.

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 05/22/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 28
Source: Department of Environmental Conservation
Telephone: 907-451-2103
Last EDR Contact: 04/05/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites
A listing of coal ash disposal site locations.

Date of Government Version: 03/08/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 17
Source: Department of Environmental Conservation
Telephone: 907-451-2135
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaning facilities in Alaska.

Date of Government Version: 02/15/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/15/2006
Number of Days to Update: 27
Source: Department of Environmental Conservation
Telephone: 907-269-7577
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: No Update Planned

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 35
Source: Department of Environmental Conservation
Telephone: 907-269-8149
Last EDR Contact: 05/15/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
Financial Assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 04/24/2007
Date Data Arrived at EDR: 04/26/2007
Date Made Active in Reports: 05/14/2007
Number of Days to Update: 18

Source: Department of Environmental Conservation
Telephone: 907-269-7802
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

NPDES: Wastwater Discharge Permit Listing
A listing of permitted wastewater facilities.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/20/2018
Date Made Active in Reports: 04/12/2018
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 907-465-5480
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Varies

UIC: UIC Information
A listing of underground injection control wells.

Date of Government Version: 02/05/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/21/2018
Number of Days to Update: 35

Source: Oil & Gas Conservation Commission
Telephone: 907-793-1224
Last EDR Contact: 05/15/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in Alaska.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/17/2014
Number of Days to Update: 200

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.Compiled from Records formerly available from the Department of Environmental Conservation in Alaska.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 187

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/03/2018
Date Made Active in Reports: 06/07/2018
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Quarterly

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Child Care Facilities Database
Source: Department of Education & Early Development
Telephone: 907-465-2800

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Classification and Mapping
Source: Alaska Natural Heritage Program
Telephone: 907-235-2218

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

2008 TIGER© Map, produced by the U.S. Census Bureau.

Spill Prevention, Control and Countermeasure

(SPCC) Plan: Skagway Bulk Plant

October 2015

Prepared for:

Petro49, Inc.
234 4th Ave
Seward, Alaska 99664

Facility Address:
10 Beach Road, PO Box 396
Skagway, AK 99840

Prepared by:

Kanaga Environmental Consulting LLC
18917 Third Street
Eagle River, AK 99577

LOG OF PLAN REVIEW AND REVISIONS *40 CFR 112.5*

Issue No.	Date	Description	Prepared By
1	January 2010	New SPCC Plan for Facility	SLR International Corporation
2	October 2015	Routine 5 year plan review	Kanaga Environmental Consulting LLC

RECORD OF REVIEWS

Statement	Signature
‘‘I have completed review and evaluation of the SPCC Plan for the Facility on _____ (Date) and will/will not (Circle one) amend the Plan as a result.’’	
Description of Revisions	
Statement	
‘‘I have completed review and evaluation of the SPCC Plan for the Facility on _____ (Date) and will/will not (Circle one) amend the Plan as a result.’’	
Description of Revisions	
Statement	
‘‘I have completed review and evaluation of the SPCC Plan for the Facility on _____ (Date) and will/will not (Circle one) amend the Plan as a result.’’	
Description of Revisions	
Statement	
‘‘I have completed review and evaluation of the SPCC Plan for the Facility on _____ (Date) and will/will not (Circle one) amend the Plan as a result.’’	
Description of Revisions	

Applicability of Substantial Harm Determination

Facility Name: Petro49, Inc. Skagway Facility
Facility Address: 10 Beach Road, PO Box 396, Skagway, AK 99840

Does the facility transfer oil over-water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?
Yes__ X__No_____

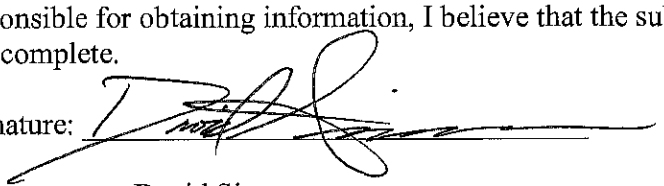
Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and, within any storage area, does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation?
Yes_____No__X___

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in appendix C or a comparable formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?
Yes__ X__No_____

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix B or a comparable formula) such that a discharge from the facility would shut down a public drinking water intake?[2]
Yes_____No___X__

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?
Yes_____No__X___

Certification
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining information, I believe that the submitted information is true, accurate, and complete.

Signature: 

Name: David Simmerman

Title: Environmental Compliance Officer

Date: 10-7-2015

TABLE OF CONTENTS

Page

LIST OF TABLES

LIST OF FIGURES

Page

LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Alaska Chadux Corporation
ADEC	Alaska Department of Environmental Conservation
API	American Petroleum Institute
AST	Aboveground Storage Tank
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (aka Super Fund)
CFR	Code of Federal Regulations
EPA	Environmental Protection Agency
FRP	Facility Response Plan
NRC	National Response Center
OWS	Oil-Water Separator
PE	Registered Professional Engineer
RA	EPA Regional Administrator
SPCC	Spill Prevention, Control and Countermeasure
STI	Steel Tank Institute
ULSD	Ultra-Low Sulfur Diesel
UST	Underground Storage Tank

SECTION 1: PLAN ADMINISTRATION

Petro49, Inc. operates the Skagway Bulk Plant within the city of Skagway, Alaska. The SPCC plan was developed consistent with the requirements described in 40 CFR 112.7 and 112.8 for onshore facilities and takes into account updates to this regulation.

1.1 Management Approval

40 CFR 112.7

Petro49, Inc. is committed to the prevention of discharges of oil to navigable waters and the environment, and maintains the required standards for spill prevention, control and countermeasure through regular review, updates and implementation of this SPCC Plan. This plan has the full approval of management and commits the necessary manpower, equipment, and materials to control and remove any quantity of oil discharged that may be harmful.

The Executive Vice President is the Designated Person accountable for oil spill prevention at the facility, reports to management, and has the authority to commit the necessary resources to implement this Plan.

Matthew Lindsey
Executive Vice President
Petro49, Inc.

10/7/15
Date

1.2 Professional Engineer Certification

40 CFR 112.3(d)

Professional Engineering Certification: I hereby certify that:

1. I am familiar with the provisions of 40 CFR 112;
2. I have examined the proposed operations and plans;
3. This SPCC Plan has been prepared in accordance with good engineering practices and with considerations for applicable industry standards;
4. Procedures for required inspections and testing have been established; and
5. It is my professional judgment that the plan is adequate for the facility.

Signature	Gawain Brumfield
Name	Gawain Brumfield, P.E.
Registration No.	13280
State of Registration	Alaska
Date	7 October 2015

Table 1.2-1 Compliance Items

Compliance Item	Reference	Proposed Completion Date	Compliance Item Resolved	
			Date Resolved	Comments

1.3 Applicability *40 CFR 112.1*

The procedures outlined in this SPCC Plan reflect the current requirements of 40 CFR 112. As provided by 40 CFR 112.1, an SPCC Plan is required for all non-transportation-related facilities if it has:

- The capacity to store oil in excess of 1,320 gallons aboveground; or
- An underground storage capacity of oil that is greater than 42,000 gallons, excluding from calculations the capacity covered by 40 CFR 280 or 281 (underground storage tank (UST) regulations; and
- If, due to its location, the facility could reasonably be expected to discharge oil, either directly or indirectly, into or upon navigable waters[1] of the US.

The Facility's total aboveground oil storage capacity is approximately 117,684 bbls/4,759,023 gallons (not including mobile refuelers), and a discharge of oil could reach wetlands with likely connections to surface water. Therefore, the facility meets the applicability requirements and an SPCC plan is required.

1.4 Location of SPCC Plan *40 CFR 112.3(e)*

In accordance with 40 CFR 112.3(e), a complete copy of this SPCC Plan is maintained in the office within the Skagway warehouse/office building, located directly north of the Skagway Bulk Plant tank farm. The office is attended 8:00 AM to 5:00 PM, 5 days per week (closed on Saturdays and Sundays).

1.5 SPCC Plan Review *40 CFR 112.3, 112.5*

1.5.1 Changes in Facility Configuration *40 CFR 112.5(a), 112.5(c)*

Petro49, Inc. periodically reviews and evaluates this SPCC plan for any change in the facility design, construction, operation, prevention and control technologies and/or maintenance that materially affects the Facility's potential for an oil discharge; this plan will be amended when such changes occur.

Petro49, Inc. will make any needed revisions to the SPCC Plan as soon as possible, but no later than six months after the change occurs. The Facility Pollution Prevention Officer (ref. Section 3.1) is responsible for initiating and implementing the revisions to the SPCC Plan.

Amendments to the Plan reflecting technical changes to the Facility require certification by a Professional Engineer (PE). Non-technical amendments, which must be documented, can be completed by Petro49, Inc. An amendment made under this section must be prepared within six months, and implemented as soon as possible, but not later than six months following preparation of the amendment.

Examples of **technical** changes include:

- Commissioning of containers;
- Reconstruction, replacement, or installation of piping systems;
- Construction or demolition that might alter secondary containment structures;
- Changes of product or service, revisions to standard operation, modification of testing/inspection procedures, and use of new or modified industry standards or maintenance procedures;
- Any other changes which materially affect the facility's potential to discharge oil.

Non-technical amendments include the following:

- Changes in the name or contact information (e.g., telephone numbers) of individuals responsible for the implementation of this Plan; or
- Change in the name or contact information of spill response or cleanup contractors.

1.5.2 Scheduled Plan Review *40 CFR 112.5(b)*

A review and evaluation of this SPCC Plan is required at least once every five years. Revisions to the Plan, if necessary, are made within six months of the five-year review. A registered PE certifies any technical amendment to the Plan in accordance with 40 CFR 112.3(d).

Scheduled reviews and revisions to the plan are recorded in the Log of Plan Review/Revisions located in the front of this document. This log will be completed even if no amendment is required to the Plan as a result of the review.

1.6 Planned Changes in Operation *40 CFR 112.7*

There are no planned changes in operation for the Facility.

1.7 Records *40 CFR 112.7(e), 112.7(f), 112.8(c)(3)(iv), 112.8(c)(6)*

A copy of the following records will be kept on-site for a period of three years. Locations of the documents are noted below:

- Records, signed by the appropriate supervisor or inspector, of inspections and tests required in this SPCC Plan,
- Secondary containment drainage logs, and
- Training records for the following training areas:
  - in the operation and maintenance of equipment to prevent discharges;
  - discharge procedure protocols;
  - applicable pollution control laws, rules, and regulations;
  - general facility operations; and,

- the contents of the facility SPCC Plan

1.8 Compliance with Applicable Requirements *40 CFR 112.7(a)(2)*

This Plan and the Facility comply with the applicable requirements of 40 CFR 112. No equivalent environmental measures have been utilized at the Facility.

1.9 Cross-Reference with SPCC Provisions *40 CFR 112.7*

This SPCC Plan does not follow the exact order presented in 40 CFR 112. Section headings identify, where appropriate, the relevant section(s) of the SPCC rule. Table 1.9-1 presents a cross-reference of plan sections relative to applicable parts of 40 CFR 112.

Table 1.9-1 SPCC Cross-Reference

Provision	Regulation Topic	SPCC Plan Location
112.1	Applicability	Section 1.3
112.3	Requirements to Prepare and Implement SPCC	Section 1.5
112.3(d)	Professional Engineer Certification	Section 1.2
112.3(e)	Location of SPCC Plan	Section 1.4
112.5	Plan Review	Section 1.5 and Inrto
112.5(a)	Changes in Facility Configuration	Section 1.5.1
112.5(b)	Scheduled Plan Review	Section 1.5.2
112.5(c)	Amendment Require PE Certification	Section 1.5.1
112.7	Management Approval	Section 1.1
112.7	Cross-Reference with SPCC Rule	Section 1.9
112.7	Facilities, Procedures, or Equipment Not Yet Operational	Section 1.6
112.7(a)(1)	Discussion of Compliance with Applicable Requirements	Section 2
112.7(a)(2)	Compliance with Applicable Requirements	Section 1.8
112.7(a)(3)	Facility Information	Section 3.2 and App A
112.7(a)(3)(i)	Oil Storage Containers	Section 3.2.5 and App A
112.7(a)(3)(ii)	Discharge Prevention Measures	Section 3.2.5 and App A
112.7(a)(3)(iii)	Discharge and Drainage Controls	Section 6.1
112.7(a)(3)(iv)	Countermeasures	Section 5, 6.2, 6.3, and 6.5
112.7(a)(3)(v)	Material Disposal	Section 5 and 6.7
112.7(a)(3)(vi)	Contacts	Section 6.8 and App B
112.7(a)(4)	Discharge Notification	Section 6.8, and App B
112.7(a)(5)	Discharge Response	Section 6.8 and App B
112.7(b)	Potential Discharge and Flow Direction	Section 3.2.5 and 6.1
112.7(c)	Containment and Diversionary Structures	Section 3.3
112.7(d)	Practicability of Secondary Containment	Section 3.5
112.7(d)(1)	Contingency Plan	Section 7
112.7(e)	Inspections, Tests, and Records	Section 1.7 and 4.1
112.7(f)(1)	Training and Discharge Prevention Procedures	Section 1.7 and 4.2
112.7(f)(2)	Pollution Prevention Officer	Section 3.1
112.7(f)(3)	Briefings	Section 4.2
112.7(g)	Security	Section 3.2.5 and 4.3
112.7(h)	Tank Truck Loading/Unloading Racks	Section 3.4
112.7(i)	Brittle Fracture Evaluation	Section 3.7.5
112.7(j)	Conformance w/ Applicable State & Local Requirements	Section 2
112.7(k)	Qualified Oil-filled Operational Equipment	Section 3.2
112.8(b)	Facility Drainage	Section 3.3 and 3.6
112.8(c)(1)	Bulk Storage Container Construction	Section 3.2.5
112.8(c)(2)	Secondary Containment	Section 3.2.5
112.8(c)(3)	Drainage of Diked Areas	Section 3.6.1
112.8(c)(3)(iv)	Records	Section 1.7

Provision	Regulation Topic	SPCC Plan Location
112.8(c)(4)	Buried Metallic Storage Tanks	Section 3.9
112.8(c)(5)	Partially Buried and Bunkered Storage Tanks	Section 3.9
112.8(c)(6)	Facility Inspection	Section 1.7, 4.1 and App C
112.8(c)(7)	Heating Coils	Section 3.9
112.8(c)(8)	Overfill Prevention System	Section 3.2.5 and 4.1.2
112.8(c)(9)	Effluent Treatment Facilities	Section 3.7.4
112.8(c)(10)	Visible Discharges	Section 3.7.3
112.8(c)(11)	Mobile and Portable Containers	Section 3.2.5 and 5
112.8(d)	Transfer Operations, Pumping and In-Plant Processes	Section 3.8
112.8(d)(3)	Abrasion and Corrosion	Section 3.2.5
112.8(d)(4)	Above Ground Inspections	Section 4.1
112.8(d)(5)	Warn Vehicles	Section 4.1

SECTION 2: INTRODUCTION AND SUMMARY *112.7(a)(1), (j)*

This Spill Prevention, Control, and Countermeasures Plan (SPCC Plan) was prepared for Petro49, Inc. Skagway Bulk Plant, located at #10 Beach Road in Skagway, Alaska. The facility is at the mouth of the Skagway River near the head of Taiya Inlet, 90 miles northwest of Juneau at 59° 27.174' N, 135° 19.589' W.

The Skagway Bulk Plant facility is a marine fuel terminal consisting of a tank farm, a warehouse building with offices, a marine header dock, a fuel pipeline to the ferry dock, a fuel dock (near the small boat harbor), and a cardlock gasoline station. The overall facility has a total storage capacity of 4,759,023 gallons in aboveground tanks and drums. The tank farm contains 14 oil storage tanks and two tank truck loading racks (TTLR) and the drum storage in the interior of the warehouse drains to the oil water separator system for the tank farm. The specific details of these tanks are summarized in Table A-1 (Appendix A) and the locations are shown in Figures A-5, A-6, A-7, and A-8.

The purpose of this SPCC Plan is to describe the measures implemented by Petro49, Inc. to prevent oil discharges from occurring and to prepare personnel to respond in a safe, effective and timely manner to mitigate the impacts of a discharge. This plan has been prepared to meet the requirements of Title 40, Code of Federal Regulations, Part 112 (40 CFR part 112) and supersedes any earlier plans developed to meet provisions in effect since 1974.

This SPCC Plan was prepared in accordance with applicable industry standards and 40 CFR 112. Petro49, Inc. management approval is located in Section 1.1 of this document. The Professional Engineer's certification is provided in the introduction of this document. Section 1.5.1 outlines updating requirements for this SPCC Plan.

Petro49, Inc. management has determined that the Skagway Bulk Plant does pose a risk of substantial harm under 40 CFR 112, as recorded in the “Substantial Harm Determination” found in the introduction. Therefore Petro49, Inc. has also submitted a Facility Response Plan to the EPA.

SECTION 3: GENERAL FACILITY INFORMATION

Facility Name:	Skagway Bulk Plant	
Physical Address:	#10 Beach Road Skagway, AK 99840	
Mailing Address	234 4th Ave Seward, AK 99664	
Phone Number:	907 983-2259 (Fuels Office) 907 865-2325 (Seward)	
Fax Number:	907 224-3937 (Seward)	
Latitude/Longitude:	59º 27.174' North; 135º 19.589' West	
Owner/Operator:	Petro49, Inc. dba Petro Marine Services 1995 - present	
Qualified Individuals:	1. David Simmerman	907-865-2325 (office) 907-315-627 (cell)
	2. Smokey Norton	907-273-8225 (office) 907-748-1800 (cell)
	3. Matthew Lindsey	907-865-2303 (office) 907-250-5935 (cell)
Wellhead Protection Areas:	N/A	
SIC Code:	5171	
Year of Oil Storage Startup:	1937	
Maximum Oil Storage:	4,759,023 gallons / 117,684 bbls	
Primary Products Handled:	Diesel Fuel, Unleaded Gas	
Worst Case Discharges:	1,054,872 gallons/25,116 bbls (Gasoline)	

3.1 Facility Pollution Prevention Officer *40 CFR 112.7(f)(2)*

The Facility Pollution Prevention Officer is responsible for spill prevention at the facility. He must be familiar with the SPCC Plan and annually review the plan for needed updates. The Facility Pollution Prevention Officer for the Facility is the Terminal Manager (listed in Appendix B).

3.2 Facility Description *40 CFR 112.7(a)(3), 112.7(k)*

3.2.1 Facility Location

The Skagway Bulk Plant is located the mouth of the Skagway River, near the head of Taiya Inlet, 90 miles NW of Juneau; geographic coordinates: 59° 27.174' N, 135° 19.589' W.

A location map is found in Appendix A, Figure A-1 and A-2.

3.2.2 Climate

Southeast Alaska has a maritime climate with small temperature variations, high humidity, high precipitation, considerable cloudiness, and little freezing weather. The average temperature is around 40 degrees Fahrenheit. The average precipitation is over 100 inches in much of the region.

3.2.3 Physical Layout

The Skagway Bulk Plant is a marine transportation related facility serving fuel and lubricants to the marine industry and transporting bulk fuel through Whitehorse in the Canadian Yukon Territory. The main features of the plant are a tank farm, a warehouse, a pumping station, two tank truck loading racks, and a marine header on the ore dock. Tank barges deliver product to the facility through the marine header at the ore dock.

The tank farm has 14 field constructed aboveground storage tanks (ASTs) within impermeable secondary containment. Fuel is delivered to the tank farm via barge, which transfers fuel to the bulk plant from the marine header dock.

There are two 6,000-gallon oil/water separators (OWS) servicing the tank farm. The north OWS is located on the north end of the tank farm. The inlet valve on the oil/water separators is normally open so any discharge at either loading area will flow into the separator and be contained there.

The discharge from the north oil/water separator is controlled by an automatic valve backed up by an alarm and a manual valve. The automatic valve is a floating-ball valve which closes the discharge line automatically whenever the oil/water interface in the separator reaches the level of the outlet. Therefore, if the separator becomes full of oil, no oil will flow out the discharge. In addition to the floating ball valve, there is a monitor to detect oil in the discharged water. When

oil is detected in the discharged water, an alarm sounds. A valve on the discharge line is closed manually to stop the flow. Sumps from the TTLRs and the northern end of the tank farm containment area drain to this oil/water separator. This oil/water separator discharges to the Skagway River.

The second OWS is at the south end of the plant. Water accumulated in the southern end of the tank farm secondary containment is drained through this separator. The south OWS is drained via a manually operated valve. The OWS has a leak detection sensor that initiates an audible and visual alarm when exposed to fuel.

The warehouse/office building has a single-walled 275-gallon heating oil AST that fuels the furnace. The AST has no secondary containment, or security. Overfill protection is provided by a clock style gauge that allows the operator to immediately determine the liquid level of the tank. The interior of the warehouse stores an average of 60 drums of lube oil at any given time. The interior of the warehouse has a sump and drain that is connected to the north oil/water separator. The warehouse is locked when the facility is unmanned.

The cardlock gasoline station is located north of town (see Figure A-10). This consists of one 20,000-gallon self-diked tank with buried pipelines to the fuel dispensers. The tank and dispensers are not fenced. The coated, buried pipelines at this location do not have cathodic protection.

Marine Terminal

The Skagway Bulk Plant is located at the mouth of the Skagway River, at the head of Taiya Inlet, 90 miles NW of Juneau. Petro49, Inc. owns seven cargo headers on the ore dock and seven six-inch lines from the headers to the tank yard. The underground piping is welded steel and yellow-jacketed, and has cathodic protection. The valves are installed with bolted flanges. One of the lines is out of service and is closed off with blank flanges. There is a six inch service line to the Alaska ferry float and a four inch service line on the float. A two inch service line fuels boats on the east side of the dock. The service line to the ferry dock is closed when not in use. At the north end of the plant is a warehouse with offices and a sales counter.

The floating fuel dock is located on the east side of the small boat harbor. The fuel dock is serviced by two 10,000-gallon self-diked tanks (one gasoline and one diesel) in a secure fenced area. Two 2-inch steel service lines carry fuel to the pier and then flex hose extends to the floating fuel dock. This fuel dispensing system is operated only by Petro49employees.

Simultaneous Transfers:

The facility can only transfer fuel to or from one vessel at a time. The largest vessel fueled is the 400ft Alaska ferry. Most of the vessels fueled are less than 120ft. The types of vessels fueled are fishing vessels, cargo vessels, tugboats, and workboats. A tank barge delivers fuel at the header on the ore dock. The Skagway plant receives bulk cargo deliveries 14 to 18 times annually. Deliveries average around one million gallons each.

Load Rack:

There are two TTLR's at the plant. The large TTLR on the east side of the tank farm is called the bonded rack and is used to load trucks that carry bonded fuel to Canada. The smaller TTLR

northwest of the tank farm is called the domestic rack. Each is lined with impermeable concrete to contain oil discharged at the TTLR. Wheel chocks are used to prevent premature movement of a tank truck during transfers. The concrete surfaces drain to sumps and into the oil/water separator north of the rack. There are two sumps on the bonded rack containment and one on the domestic. The location of the sumps is depicted on Figure A-5, Skagway Plant Tank Farm. The inlet valve on the o/w separator is normally open so any discharge at either truck rack will flow into the north OWS. The largest compartment in any truck loaded at either TTLR is 1,300 gallons.

Mobile Marine Facility
The Petro49, Inc. Skagway plant may include mobile fueling operations. Tank trucks are used for fueling vessels. Mobile fueling may occur at any dock on the Skagway water front.

See Appendix A for general site layouts.

3.2.4 Reportable Spill History

No reportable oil spills have occurred at the facility in the last five years.

3.2.5 SPCC Units *112.7(a)(3)(i) & (ii), (b), (g), 112.8(c)(1), (2), (8), (11), (d)(3)*

For the purposes of this plan, an SPCC unit is defined as an area of the facility that drains to a similar location and/or has substantially similar drainage patterns. These drainage patterns indicate that SPCC containers within these areas should be managed together.

As of the date of this SPCC plan, four SPCC units have been identified for this facility. Table A-1 in Appendix A summarizes general area encompassed by the SPCC units and the aboveground storage containers located in the units. Figures A-8 – A-10 depict the SPCC units and drainage patterns within and around those units.

The following sections describe location and drainage patterns and the containers and materials present within the SPCC units. For specific tanks, the following sections also describe the general function, secondary containment system, spill pathway, and preventive measures.

3.2.5.1 SPCC Unit 1 – Skagway Bulk Plant

Description: SPCC Unit 1 consists of the Skagway Bulk Plant tank farm, Tanks 1 through 14.

Piping: Piping is elevated and visible.

Containment System: Tanks 1 – 9 are all set on gravel foundations. Tanks 10 – 14 are set on concrete slabs with perimeter grade beams. Tanks 1 - 14 have internal, 60 mil, Thiokol 2233 liners manufactured by Morton International, Inc. All the tanks in the tank farm stand within a concrete ring-wall foundation that is designed to contain 1,173,102 gallons of liquid. The secondary containment area is lined with an impermeable material composed of a geotextile fabric coated with Polyshield SS-100. The north end of the

containment area drains to a 6,000-gallon oil/water separator. The south end drains to a second 6,000-gallon oil/water separator.

Spill pathway: A release related to catastrophic failure of the tank system would flow into the containment system and the oil/water separators. If the oil/water separators should fail, the release would flow west into the mouth of Skagway River.

Preventive Measures: Each tank in the tank farm also has an electronic high level alarm to prevent releases due to accidental overfilling. Alarms are set one foot below the top of the shell. Alarms are manufactured by Link Liquid Level Lectric, Inc, and the system includes a panel located in the office that indicates which tank has alarmed.

Security: The tank farm is surrounded by a locked security fence and illuminated by floodlights.

Drum Storage – Lube Oil Drum Storage (Inside warehouse)

Material: Lube oil

Volume: Average 3,300 gallons (in 55-gallon drums)

Piping: There is no piping for these drums.

Containment System: The drums are stored within the warehouse which has a concrete floor that drains to the north oil/water separator.

Spill pathway: A release related to catastrophic failure of the drums would flow across the concrete floor to the north oil/water. Failure of the separator would results in a release to the Skagway River.

Preventive Measures: The drums are full and unopened; they are for sale.

Security: The drums are stored in the warehouse, which is locked when unmanned.

3.2.5.2 SPCC Unit 2 – Warehouse

Tank 15 – Warehouse/Office Heating Oil Tank *

Material: Heating Oil

Volume: 275 gallons

Piping: Piping is elevated and visible.

Containment System: There is no secondary containment for this tank.

Spill pathway: A release related to catastrophic failure of the tank would flow overland onto the gravel below it and southwest into the mouth of Skagway River.

Preventive Measures: There is a visible sight gauge installed, and secondary containment will be installed in the coming year and the SPCC will be updated at that time.

Security: This tank is located within the perimeter fence of the bulk plant facility that is locked when the facility is unmanned.

3.2.5.3 SPCC Unit 3 – Fuel Dock

Description: SPCC Unit 3 consists of the fuel dock at the small boat harbor.

Tank M1 – Fuel Dock Gasoline Tank

Material: Gasoline
Volume: 10,000 gallons
Piping: Piping is elevated and visible.
Containment System: The tank is self-diked.
Spill pathway: A release related to catastrophic failure of the tank would flow overland onto the ground below it and west into the Small Boat Harbor.
Preventive Measures: The tank has a high level alarm.
Security: The tanks are surrounded by a locked security fence.

Tank M2 – Fuel Dock Diesel Tank

Material: Diesel
Volume: 10,000 gallons
Piping: Piping is elevated and visible.
Containment System: The tank is self-diked.
Spill pathway: A release related to catastrophic failure of the tank would flow overland onto the ground below it and west into the Small Boat Harbor.
Preventive Measures: The tank has a high level alarm.
Security: The tanks are surrounded by a locked security fence.

3.2.5.4 SPCC Unit 4 – Cardlock Gasoline Station

Description: SPCC Unit 4 consists of the cardlock gasoline station located north of town.

Tank C1 – Cardlock Gasoline Tank

Material: Gasoline/Diesel
Volume: 20,000 gallons (two 10,000 gallon compartments)
Piping: Piping is elevated and visible.
Containment System: The tank is self-diked and is located in a containment basin.
Spill pathway: A release related to catastrophic failure of the tank would flow spill into the external containment basin and then flow overland onto the ground below it and southeast into Skagway River.
Preventive Measures: The tank does not have an overfill alarm, but does have an external containment basin area around the tank.
Security: The tank fill is locked, but the tank is not fenced in.

3.3 Containment and Diversionary Structures *40 CFR 112.7(c), 112.8(b)(4)*

The 14 tanks at the Skagway Bulk Plant tank farm are situated within a ring-wall concrete containment area. Two 6,000-gallon oil/water separators service the tank farm. One is located on the north end of the tank farm and one on the south end of the tank farm. The inlet valve on the north oil/water separator is normally open so any discharge at either loading area will flow into the separator and be contained there. The discharge from the oil/water separators is controlled by an automatic valve backed up by an alarm and a manual valve. Drums in the warehouse are contained by the warehouse's concrete floor which drains to the north oil/water separator.

The 275-gallon heating oil tank (Tank 15) at the warehouse currently does not have secondary containment but it will be installed in the coming year and the SPCC will be updated at that time.

The three tanks located away from the bulk plant (Tanks M1, M2, and C1) are self-diked tanks. Tank C1 is also located within a containment basin.

3.4 Tank Filling/Fuel Dispensing Operations *40 CFR 112.7(h)*

The highest potential at the facility for a significant release of oil is represented by tank filling or fuel dispensing operations. These operations are manual activities that are observed by the operator of the equipment. If a spill were to occur during transfer operations, the facility's Contingency Plan (Section 7) would be implemented in concert with the contingency plan for fuel delivery, if the release occurred during fuel delivery.

The following procedures are followed to prevent and minimize the release of oil during fuel delivery/transfer operations:

- The tank's liquid-level gauge is checked (or the tank is dipped) to confirm there is sufficient tank capacity prior to receiving any fuel.
- Petro49, Inc. personnel monitor transfer operations.
- Spill response equipment and supplies are located in the container van beside the warehouse and within the warehouse. There is an additional spill kit on the domestic TTLR. Additional spill response material is present at the fuel dock.
- No aboveground piping is located over drive areas.

3.5 Practicability of Secondary Containment *40 CFR 112.7(d)*

Secondary containment has been found practicable for this facility.

3.6 Facility Drainage *40 CFR 112.8(b)*

3.6.1 Catchment Basins or Diked Areas *40 CFR 112.8(c)(3)*

Accumulated precipitation in tank catchment basins or diked areas is retained until it can be discharged in accordance with 40 CFR 112.8 regulations. Tanks M1 and M2 at the Fuel Dock are self-diked tanks. When drainage from secondary containment is required, it will be checked for sheen prior to removing precipitation from the containment. The secondary containment drainage log as provided in Appendix D is completed when draining water from secondary containment to the environment. Records will be maintained for three years.

Skagway Bulk Plant tank farm, Tanks 1 through 14 have a secondary containment area that is lined with an impermeable material composed of a geotextile fabric coated with Polyshield SS-100. The north end of the containment area drains to a 6,000-gallon oil/water separator. The south end drains to a second 6,000-gallon oil/water separator.

Secondary containment areas are visually inspected periodically for the presence of water or debris during the routine inspection of the facility. The procedure to remove water from the area is as follows:

1. Water and snowmelt collected in the containment area are visually observed by a trained operator to determine if it might contain fuel or oil. Sheen on the surface or a fuel odor in the water is an indicator of fuel/oil contaminated water.
2. If sheen or odors are present, the water contains fuel/oil, and sorbent pads will be placed in the water to absorb any product. If sheen is still visible or the spill is too large to collect in this manner the Facility Pollution Prevention Officer will have the water pumped from the containment and hauled off site for disposal or treatment.
3. If there is no visible sheen or odor, the operator is permitted to drain water from the containment area through an oil skimmer drum system.
4. At the completion of these operations, the operator annotates the secondary containment drainage log as provided in Appendix D.

Spill containment pallets for portable containers are stored outdoors within the secondary containment of the TTLR, in which case water accumulation is anticipated. When water accumulates in the containment pallets below the portable containers, it is emptied per the operation noted above.

3.6.2 Undiked Areas

The Warehouse/Office Heating Oil Tank has no secondary containment. A release related to catastrophic failure of the tank would flow overland onto the gravel below it and southwest into the mouth of Skagway River. There is a visible sight gauge installed, and secondary containment will be installed in the coming year and the SPCC will be updated at that time.

Fuel transfers in undiked areas only occurs at the cardlock tank and the day tanks at the Marina. All fuel dispensing is performed by a trained Petro49, Inc. employee.

Area drainage and flow direction is discussed in Section 3.2.5.

3.7 Bulk Storage Containers *40 CFR 112.8(c)*

Table A-1, Appendix A summarizes the construction, volume, content, secondary containment and overfill and discharge controls of bulk storage containers at the Facility.

3.7.1 Construction *40 CFR 112.8(c)(1)*

Oil tanks are constructed of steel, in accordance with industry specifications. The design and construction of oil storage containers and associated piping are compatible with the characteristics of the oil product they contain and with temperature and pressure conditions. Transfer hoses are designed for petroleum products.

3.7.2 Overfill Prevention Systems *40 CFR 112.8(c)(8)*

The tanks have overfill prevention systems as noted in Table A-1 of Appendix A. Environmental protection for overfills is also provided by at least one of the following:

- Determination of fuel quantity transfer prior to the transfer
- Continuous observation of fuel transfer by Petro49 employee

3.7.3 Visible Discharges *40 CFR 112.8(c)(10)*

Visible discharges from any container or appurtenance – including seams, gaskets, pumps, valves, rivets and bolts – are noted during the visual inspections and promptly corrected upon discovery. Fluids are regularly removed from secondary containment as detailed in Section 5 and disposed of according to the waste disposal method described in Section 6.6 of this Plan.

3.7.4 Wastewater Treatment *40 CFR 112.8(c)(9)*

Not applicable at this site.

3.7.5 Non Applicable Requirements *40 CFR 112.7(i)*

The following requirements of 40 CFR 112.7 do not apply at the Facility:

- Brittle Fracture Evaluation. Shop-built tanks are exempt from brittle fracture analysis.
- Oil-Filled Equipment. No oil-filled equipment with oil quantities 55 gallons or greater is stored or used on-site.

3.8 Transfer Operations, Pumping and In-Plant Processes *40 CFR 112.8(d)*

All buried metallic pipe has cathodic protection. Cathodic protection was installed on all buried metallic pipe in 2011. The system installed is made of galvanic anodes electrically connected to the pipes. There are 16 magnesium anodes at two junction boxes. A stationary reference electrode is installed from monitoring the system. Isolation flanges are installed between the above ground and the buried pipes. The system will be inspected annually by a corrosion expert.

Routine product transfer from one area of the Facility to another occurs by hard piped connections or by piping that is connected via cam-lock fittings (via truck). Pipe runs also exist between tanks and equipment within the confines of the Facility.

The following material transfer procedures apply to bulk shipments unless superseded by specific alternative directions, provided in writing, to operations personnel and/or contractors. Petro49, Inc. fuel supply contractors are aware of Petro49, Inc. transfer and spill response procedures. The person responsible for fuel and other fluid transfers at the Facility is the Terminal Manager.

3.8.1 Material Transfer Procedure

Tanks are filled via barge. Fuel transfer is completed using a transfer pump and pressure-tested hoses fitted with cam-lock connections. Fuel transfer out of the tanks is accomplished via a pump and nozzle at the tank, fuel dispenser, or via a tank truck. Visual monitoring of tank gauges is the primary method of fuel level determination for transfers to and from the bulk storage tanks. Transfers must always have trained personnel present for monitoring and control.

Fuel transfer personnel at a minimum will:

- Understand fuel storage and distribution facility operating procedures, site spill prevention, controls, and spill response and reporting requirements.
- Secure sources of ignition in the vicinity of the fuel transfer.
- Stick the tank or otherwise check the initial tank volume before filling.
- Verify that the volume of fuel to transfer does not exceed the available capacity, allowing for thermal expansion.
- Properly ground the fuel delivery vehicle and other applicable equipment.
- Examine transfer hoses for signs of wear or damage before connection to fill pipe.
- Place drip pads or other containment underneath all hose connections.

- Block the fueling truck wheels with wheel chocks to prevent the truck from moving and to prevent the driver from driving off before disconnecting the hose from the fill pipe.
- Monitor all fuel transfer operations in their entirety.
- Ensure the tanks are not filled above a level that will result in overflow resulting from thermal expansion. Personnel monitoring the fuel transfer will be in visual or verbal communication with each other at all times.
- Following completion of fuel transfer, close all valves, lock fuel delivery nozzle in the closed position, and place the nozzle within the secondary containment provided for the pump/filter.
- Secure the tanks when finished.
- Check truck tanks for signs of leaks.
- Collect any drips or drops in portable liners and immediately attend to them after a fuel transfer.

All above ground valves, piping and appurtenances are regularly inspected during tank inspections. Piping that is not in service or is in standby service for an extended time is securely capped.

3.9 Non Applicable Requirements 40 CFR 112.8

40 CFR 112.8(c)(4); 112.8(c)(5), 112.8(c)(7)

The following elements related to bulk storage containers do not exist at the Facility:

- Completely buried metallic oil storage tanks
- Partially buried or bunkered metallic oil storage tanks
- Internal heating coils

SECTION 4: FACILITY INSPECTIONS, TESTS, AND RECORDS

4.1 Facility Inspections, Tests, and Records *40 CFR 112.7(e), 112.8(c)(6), (d)(4) & (5)*

The inspector designated by Petro49, Inc. will inspect each SPCC unit, aboveground tanks, and aboveground piping at least monthly to check for leaks, spills, or any other indication of a release. Any release or suspected release will be immediately reported to the Plant Manager for corrective action.

Inspections and tests of oil containers and secondary containment are conducted on a regular frequency dependent upon the type of container and its use. Monthly and annual inspections are conducted by appropriately trained company personnel, and include container supports and foundations as well as impoundment areas.

4.1.1 Inspection of Containment Vessels for Storm Water

The concrete containment area around the tank farm collects storm water which drains to two oil/water separators, located on the north and south ends of the plant. The containment area is monitored during daily inspections conducted by plant personnel. The warehouse and self-diked tanks are enclosed and will not accumulate storm water.

4.1.2 Tank, Valves, Piping, and Appurtenances Inspection and Testing *112.8(c)(8)*

The ASTs, valves, and piping will be visually examined at least annually. The examination will include the following elements:

- Examination of the general condition and appearance of the tanks, valves, and piping
- Examination of the tanks valves, and piping, for need of maintenance
- Examination of the foundation and supports for the tanks, valves, and piping

Integrity testing of a shop-built AST at regular intervals is not necessary if the walls, sides, and bottom of the tank and associated piping are visible, the AST is less than 30,000 gallons, and the AST is equipped with a barrier between the tank and the ground. The three tanks located outside the main bulk plant (M1, M2, and C1) and the drums stored inside the warehouse appear to meet the qualifications for this exemption.

If visual inspection suggests a potential for tank failure, integrity testing techniques will be employed (hydrostatic, radiographic, ultrasonic, acoustic emissions or another system of non-destructive shell testing). Annual visual inspection records are kept onsite.

4.1.3 Monthly Inspections

Visual inspections shall be conducted monthly to monitor and record the condition of each oil-containing tank and container. If diesel and oil tanks are stored on-site out of service condition, the tanks and piping are drained, with piping blind flanged or securely capped, and tanks labeled "Out of Service" with the corresponding date.

Portable containers such as drums and totes may be inspected as a group if they are stored as a group. Visible leaks or spills are promptly cleaned up and the problem corrected.

Secondary containment for containers of volume 55 gallons or greater are inspected monthly along with the tank inspections. Spills, precipitation, debris and any other material that could reduce the volume of the secondary containment are removed as soon as practicable. Precipitation accumulated in sumps or impoundments or other types of secondary containment will be inspected for the presence of a sheen prior to removal of any fluid. Sheen or oil layers are removed using absorbents in the on-site spill kits. Following sheen removal, the oil-laden absorbent materials are properly containerized and disposed.

Valves, piping and appurtenances connected to oil containers are considered part of the container and are included in the inspections.

4.1.4 Annual Inspections

A more thorough inspection is conducted annually. Records of this inspection are signed by the individual who conducted the inspection and retained on file onsite or electronically for at least three years.

4.1.5 Inspection Records

At a minimum, all completed inspection and test forms are signed by the individual who conducted the inspection and retained on file onsite or electronically for at least three years. Records of corrective actions taken are maintained for the service life of the tank.

4.1.6 Certified Inspections and Testing

Each aboveground container is regularly inspected for integrity and certified for service by certified inspector in either API 653 or STI SP001 as appropriate. Inspection and maintenance records are kept onsite for the life of the tank. Table A-1 lists the next scheduled inspection date for each tank.

Steel drums and totes containing oil will not remain onsite for a period longer than twelve years unless they undergo testing per the requirements above. Plastic oil-filled portable containers will not remain onsite for a period longer than seven years unless they undergo testing per the requirements above.[2]

Inspections of valves, piping, and mechanical equipment are performed monthly.

Note:
[2] Table 5.5, STI SP001

4.1.7 Emergency Response Equipment Inspections

Spill cleanup equipment inventories will be checked every six months. If any materials have been removed during the interim they will be replaced. The semi-annual inspections of spill response equipment will be recorded on the inspection log and maintained for a period of at least three years.

4.2 Training and Discharge Prevention Procedures *40 CFR 112.7(f)(1) 7 (f)(3)*

The Plant Manager is the facility designee and is responsible for oil discharge prevention, control, and response preparedness activities at this facility. Online and onsite training will be provided by the Plant Manager to appropriate personnel as determined by Petro49, Inc. policy and the Plant Manager.

Petro49, Inc. has instructed oil-handling facility personnel in the operation and maintenance of oil pollution prevention equipment, discharge procedure protocols, applicable pollution control laws, rules and regulations, general facility operations, and the content of this SPCC Plan. New facility personnel with oil-handling responsibilities will be provided with this same training.

Petro49, Inc. personnel with oil storage and spill response duties will be required to participate in annual SPCC Plan training. This training may coincide with a regular safety meeting or other facility-wide training, if desired. At a minimum, the training will include:

- Purpose of SPCC Plan
- Identification of spill sources
- Site drainage patterns
- Spill containment and cleanup procedures
- Spill notification procedures
- Use of outside contractors for spill cleanup and assistance
- Inspections, corrective action, and documentation
- Past spill events and methods to prevent future spills; and
- Maintenance and operation of equipment

4.3 Facility Security *40 CFR 112.7(g)*

The tank farm and the fuel dock tanks are surrounded by security fencing that is locked closed when the facility is unmanned. Drums are stored within the warehouse, which is also locked inside the fence when unmanned. Security at the cardlock AST is limited to a locking fill cap, which is considered the minimum security for this type of installation. Specific security features are detailed in Section 3.2.5 and are considered adequate for the remaining containers.

4.4 Recordkeeping

Written procedures, documentation, and inspection records related to the SPCC plan will be maintained for a period of three years. The Plant Manager will maintain copies of all records and the Appendices of this plan have been setup for convenient recordkeeping. Records that will be retained will include, but are not limited to, the following:

- SPCC Unit Inspection Forms – Monthly
- Tank/Piping Visual Integrity Testing Records – Annually
- Spill Response Equipment Inventory Forms – Semi-Annually
- Spill Response Documentation – As needed
- Personnel Training Records – Annually
- SPCC Plan Revision Records – As needed

SECTION 5: SPILL CLEAN-UP LEVELS AND PROCEDURES – *112.7(a)(3)(iv) & (v), 112.8(c)(11)*

Petro49's standard operating procedures is that any quantity of oil that enters the environment (soil, ground water, or surface water) through a non-permitted discharge point will be immediately cleaned-up. Spill cleanup will begin as soon as possible after the spill is discovered. Failure of a tank to an integrated secondary containment in a skirted or double-walled tank is considered a release, although the environment has not been directly impacted.

Spill response equipment and supplies are stored in a container van located northeast of the Skagway warehouse. Additional spill response equipment is located within the warehouse and on the domestic TTLR. A third supply of response equipment is located on the floating fuel dock. This equipment includes a wide range of sorbents materials and other supplies to adequately contain the variety of hazardous materials that are used on site. The inventory of supplies is updated to reflect the inventory of hazardous materials on site at any given time. A detailed inventory of the spill response equipment and supplies is available at the Skagway Bulk Plant office.

Defensive action will begin as soon as possible following a release to prevent, minimize, and/or mitigate threats to the public health or the environment. The following major actions will occur immediately following a spill to minimize impacts to human health and the environment:

- Identify source/cause of release
- Control the source of discharge and prevent ignition if possible and safe
- Contain the spill to a limited area through physical and chemical barriers
- Notify supervisor and/or Plant Manager
- Get trained personnel and equipment to the site quickly
- Notify Petro49, Inc. as indicated below to contact offices and agencies involved in the cleanup (Appendix A)
- Define the spill: volume, product, location, cause and cleanup actions

Petro49, Inc. personnel detecting a spill will take immediate action to prevent further discharge (e.g. closing valves, turning pumps off, or any other appropriate action), and deploy available spill response materials to contain the release. All reasonable efforts will be made by Petro49, Inc. personnel to contain the spilled product on built-up gravel surfaces and prevent the spilled material from reaching undisturbed surfaces. Access to the spill will be restricted to trained response personnel.

After the spill has been contained and the initial site assessment completed, Petro49, Inc. will determine if clean-up assistance from an outside emergency response contractor is necessary and make appropriate contacts. Petro49, Inc. will designate a response coordinator to manage the needed response activities, as appropriate for the site. The response coordinator will be responsible for designing a clean-up strategy and prepare a spill clean-up plan based on site and event specific characteristics, including the type and volume of material spilled, and the affected environment. Following initial response actions, material recovery efforts will begin immediately in accordance with the clean-up plan.

Petro49, Inc. will ensure that areas affected by the spill are cleaned up in accordance with the applicable State clean-up criteria. Contaminated soil, debris, and absorbents will be stored in appropriate containers that are in good condition and properly labeled until disposal has been arranged. Petro49, Inc. will ensure that contaminated media will be properly removed and disposed of in accordance with appropriate regulations.

Spills that occur in secondary containment areas will be removed using either sorbent materials or a portable pump. Pure oil spills inside a double walled tank can be removed with a submersible pump or a vacuum truck and stored for reclamation. If water is present with the released petroleum, the oily water should be passed through the separator and be reclaimed or disposed of according to the quality of the spilled oil.

Petro49, Inc. will prepare a final report describing spill event details and spill response activities, including sampling and analysis results, in compliance with applicable regulations.

SECTION 6: DISCHARGE RESPONSE

Uncontrolled discharge of oil to waters of the United States is prohibited by federal and state laws. In addition, contamination of land and groundwater by oil is prohibited by federal and state regulations. Immediate action must be taken to control, contain and recover discharged product.

A substantial harm determination was completed for the Facility and is included in the introduction. It was determined that a facility response plan (FRP) is required for the Facility. Therefore Petro49, Inc. has submitted a Facility Response Plan to the EPA.

This section discusses the basic response and cleanup procedures in the event of an oil discharge.

6.1 Potential Discharge Volumes and Direction of Flow *112.7(a)(3)(iii), (b)*

Petro49, Inc. recognizes that spill awareness and prevention are key components to spill prevention. The Facility operates in a manner that provides highly reliable procedures in the handling, transfer and storage of petroleum products. Discharge prevention measures include written procedures for transfer of product to storage tanks, training of personnel in spill awareness and prevention, and appropriate design and inspection of oil-filled containers and equipment including secondary containment and discharge controls.

The Skagway Bulk Plant is located at the mouth of the Skagway River near the head of Taiya Inlet in Skagway, Alaska.

A reasonable assumption for a worst-case scenario for the SPCC unit would involve the rupture of the largest container in that unit. Most of the tanks have secondary containment, making a catastrophic spill less likely. The specific drainage patterns in each SPCC unit are detailed in section 3.2.5 in the SPCC unit descriptions. The table below summarizes the information related to a worst-case discharge in each of the units.

Table 6-3 Discharge Volume and Flow Direction Summary

SPCC Unit No.	General Location	Largest Container	Product	Drainage Direction	Closest Surface Water
1	Bulk Plant Tank Farm	1,054,872 gallon tank	Gasolne	West	Skagway River 75 Feet
2	Warehouse Heating Oil	275 gallon tank	Heating Oil	Southwest	Skagway River 250 feet
3	Fuel Dock Tanks	10,000 gallon tank	Gasoline or Diesel	North or South	Harbor 40 feet
4	Cardlock Station	10,000 gallon tank compartment	Gasoline or Diesel	Southeast	Skagway River 550 feet

6.2 Spill Discovery *40 CFR 112.7(a)(3)(iv)*

Operational and maintenance personnel are trained to check for oil leaks and spills when working at facilities that have oil containers. As head of the on-site spill response personnel, the Petro49, Inc. Terminal Manager is responsible for the day-to-day spill prevention efforts at the drill site as well as all other pollution control. The Petro49, Inc. Terminal Manager has the authority to obtain additional labor crews, equipment, and materials to contain and clean up a spill.

Monthly and annual tank inspection assessment checklists, described in Section 4 of this Plan, are designed to identify leaks and spills. Tank and container containment is visually monitored for leaks/discharges by personnel during deliveries, monthly inspections, and as part of the routine plant rounds. Outside areas are monitored during routine rounds for leaks, spills, and discoloration/staining. Piping is also monitored for leaks during plant rounds.

Pumps are inspected on a regular basis to ensure proper performance and to discover and mitigate any leaks.

6.3 Response To A Discharge *40 CFR 112.7(a)(3)(iv); 112.7(a)(5)*

Petro49, Inc. maintains a crew of trained personnel at the Facility. These employees are available to respond to emergencies involving an oil discharge.

Appendix B contains a list of Emergency Contacts and a list of discharge response equipment that is available at the Facility. A spill at the Facility is likely to be discovered by personnel on duty. The planned response will depend on the severity of the spill. The different types of responses are listed below.

For the purpose of establishing appropriate response procedures, this Plan classified discharges as either “minor” or “major,” depending on the volume and characteristics of the material released.

6.3.1 Initial Response – All Spills

Typical spill response procedures for all types of spills are listed in Table 6.3-1.

Table 6.3-1 Initial Response

Step	Goal	Response
1	Safety	Assess scene for safety prior to initiating any action. Do not enter area unless it is safe.
2	Stop Ignition Sources & Product Flow	If safe, turn off sources of ignition. Turn off pumps and machinery, shut off all drains and valves. Ignition shut-off is located in the cab of each truck.
3	Notify Terminal Manager	Terminal Manager will assess situation, make necessary agency notifications and arrange for spill cleanup
4	Isolate Area	Isolate area if possible or if needed to prevent entry for safety reasons.
5	Control, Containment and Clean-up	Initiate standard spill response procedures (absorbents, shovels, berms, booms, etc.).
6	Spill Record	Record location, quantity, type of oil, and action taken in the log (Appendix D)

6.3.2 Response to a Minor Discharge

A minor discharge is defined as one that poses no significant harm (or threat) to human health and safety or to the environment. Minor discharges are generally those where:

- The quantity of product discharged is normally less than 10 gallons;
- Discharged material is easily stopped and controlled at the time of the discharge;
- Discharge is localized near the source;
- Discharged material is not likely to reach water;
- There is little risk to human health or safety; and
- There is little risk of fire or explosion.

Minor discharges can usually be cleaned up by onsite Petro49, Inc. personnel. The following guidelines apply:

- Follow the steps for initial response.
- Under the direction of the Petro49, Inc. Terminal Manager, contain the discharge with discharge response materials and equipment.
- Place discharge debris in appropriately labeled waste containers.
- The Petro49, Inc. Terminal Manager will complete the required discharge notification.

6.3.3 Response to a Major Discharge

A major discharge is defined as one that cannot be safely controlled or cleaned up by Facility personnel, such as when:

- The discharge is large enough to spread beyond the immediate discharge area;
- The discharge material enters water;
- The discharge requires special equipment or training to clean up;
- The discharged material poses a hazard to human health or safety; or

- There is a danger of fire or explosion.

The following guidelines apply in the event of a major discharge:

- Follow the procedures for a minor discharge.
- Contact Spill Response contractor for assistance, if needed.
- Prevent offsite migration.
- Protect storm water drains.
- Contact agencies immediately (within thirty minutes of spill discovery) per the requirements as listed in Appendix B.

6.4 Spill Cleanup Strategy *112.7(a)(3)(iv)*

After the initial site assessment has been completed, Petro49, Inc. personnel will determine if spill cleanup assistance from an outside emergency spill response contractor is needed or if in-house personnel can clean up the spill. Contracts are maintained with regional spill response contractors.

6.5 Spill Containment and Clean-Up

After the initial response procedures have been completed, the procedures listed in Table 6.4-1 can be applied as required for control, containment and clean-up of the spill.

Table 6.5-1 Containment Procedures

Step	Goal	Response
1	Prevent spread	• Barricade the spill area from public and vehicle use. • Berm area with soils or snow at the leading edge of the flow. • Construct intercept trenches or ditches across migration path. • Use booms or other absorbent material to intercept flow. • If rainfall is a major concern, divert runoff from the contaminated area.
2	Clean up	• Use oil absorbent material to clean up the spilled oil. • Pump pooled oil into temporary storage containers. • Bring in specialized equipment as needed (vacuum trucks, etc.). • Remove contaminated soil from the site for proper disposal.
3	Control contamination	• Place discharge debris in properly labeled waste containers. • Remove contaminated soils and place in containers for proper disposal. • Sample site for contamination prior to backfilling excavation.
4	Notification	• Complete required notification(s).

6.6 Waste Disposal *40 CFR 112.7(a)(3)(v)*

Non-hazardous oily absorbent pads can be disposed of at an appropriate offsite facility. Contaminated soil or water should be shipped off-site for proper treatment and/or disposal.

6.7 Discharge Notification *40 CFR 112.7(a)(3)(vi), (4), & (5)*

Spill notification is the initial notification given to agencies and is typically accomplished by telephone or fax. Spill reporting is the written report submitted to agencies. Requirements for notification and reporting vary by agency, spilled material and location. Contact information for the various agencies is provided in Appendix B, as is a summary of requirements.

6.7.1 Alaska Department of Environmental Conservation (ADEC)

Notification of the ADEC fulfills all state agency notification requirements per 18 AAC 75.300. The spill notification form located in Appendix B shall be completed for each spill and submitted to ADEC, or the information can be given orally over the telephone. If the notification and reporting matrix indicates that a notification must be made immediately, the notification will be made within 30 minutes of spill discovery. ***Do not delay notification to obtain more spill information.*** A summary of ADEC notification and reporting requirements is presented in Appendix B.

The report will be prepared or reviewed by Petro49, Inc. personnel and delivered to the ADEC within 15 days of the spill event or the date cleanup is completed, whichever is later.

6.7.2 National Response Center (NRC)

The NRC must be notified for any spill discharged in quantities that may be harmful, as described in 40 CFR 110, into or upon the navigable waters of the United States or adjoining shorelines or when spills exceed a CERCLA reportable quantity. An oil sheen on navigable waters would require NRC notification. Notification of the NRC fulfills all federal notification requirements. A summary of NRC notification and reporting requirements is presented in Appendix B. The following data shall also be collected and relayed to the NRC:

- Spill (material and volume)
- Location of spill (latitude and longitude)
- Safety issues (evacuations and injuries)
- Description of all affected media
- Cause
- Actions to mitigate effects of discharge
- Description of any evacuations
- A list of agencies notified

6.7.3 Environmental Protection Agency (EPA)

In addition to the above reporting to the NRC, 40 CFR 112.4 requires that information be submitted to the United States EPA Regional Administrator (RA) and the appropriate state emergency in charge of oil pollution activities whenever the facility discharges:

- More than 1,000 gallons of oil in a single event, or
- More than 42 gallons of oil in each of two discharge incidents within a 12-month period.

The following information must be submitted to the EPA RA within 60 days:

- Name of the facility;
- Name of the owner/operator;
- Location of the facility;
- Maximum storage or handling capacity and normal daily throughput;
- Corrective action and countermeasures taken, including a description of equipment repairs and replacements;
- Description of facility, including maps, flow diagrams, and topographical maps;
- Cause of the discharge(s) to navigable waters and adjoining shorelines, including a failure analysis of the system and subsystem in which the failure occurred;
- Additional preventive measures taken or contemplated to minimize possibility of recurrence; and
- Other pertinent information requested by the EPA RA.

A summary of EPA notification and reporting requirements is presented in Appendix B.

6.8 Cleanup Contractors and Equipment Suppliers

Petro49, Inc. spill kits are located in the mobile tank trucks and in or near the warehouses. The inventory of response supplies and equipment is provided in Appendix D and is verified on a monthly basis.

Petro49, Inc. has a contract for spill response assistance with Southeast Alaska Petroleum Response Organization (SEAPRO). Contact information for SEAPRO is located in Appendix B.

SECTION 7: CONTINGENCY PLAN *112.7(d)(1)*

This contingency plan includes the elements outlined in 40 CFR 109.5 as detailed below for response to a spill during AST loading operations or for units where secondary containment is not provided. The heating oil AST for the warehouse (Tank 15) is the only tank that does not have adequate secondary containment. The contingency plan consists of the notification procedures and spill response actions as detailed above in Sections 5 and 6.

Petro49, Inc. has an Oil Discharge Prevention and Contingency Plan for the Skagway Bulk Plant on file in the facility office. The contingency plan elements include:

- Notification procedures
- Response equipment available/needed, and
- Response actions.

Upon indications that a release is occurring, a person knowledgeable with the operations of the unit will immediately inspect the unit to verify a leak is occurring. Upon verification that a release of any quantity has occurred, the following procedures are to be taken:

Notification Procedures: ***See Section 6.0***
Employees who detect or observe a spill should contact their immediate supervisor and/or the plant manager. Leave a message as appropriate, but do not stop attempting notification until direct contact is made. Petro49, Inc. is responsible for notification agencies identified in the notification list in Appendix B.

Spill Response Equipment Locations: ***See Section 5.0***
Appropriate spill response equipment will be brought to the site by the first responders notified by the Plant Manager. A spill kit is stored in the container van beside the warehouse and an inventory list for the kit is maintained in the office.

Response Actions: ***See Section 5.0***
Immediate response actions should include:

- Identify source/cause of release
- Control the source of discharge and prevent ignition if possible and safe
- Contain the spill to a limited area through physical and chemical barriers
- Notify supervisor or plant manager to:
    - Get trained personnel and equipment to the site quickly
    - Notify offices and agencies involved in the cleanup (Appendix A)
    - Develop cleanup plan and engage contractor if necessary

After the immediate spill response is completed, the follow actions should be taken:
- Define the spill: volume, product, location, cause and cleanup actions
- Remove the oil
- Dispose of the oil and contaminated media in accordance with cleanup plan.

SECTION 8: WORST CASE RESPONSE ACTIONS

The worst-case release scenario at the facility would involve a catastrophic failure of the 1,054,872 gallon unleaded gasoline tank. Such a release is not likely due to security of the tank and the secondary containment designed to contain the entire tank contents. However, if the secondary containment fails, the release of fuel would spill onto the gravel pad surrounding the containment area, and run into the Skagway River. If the automatic and manual controls on the oil/water separator were to fail, the released fuel would run into the Skagway River. The following response actions will be completed when a spill is detected:

- The first employee who detects the release will notify the Plant Manager.
- Petro49, Inc. and the Plant Manager will arrange for mobilization of appropriate resources for cleanup.
- Petro49, Inc. will designate an appropriate individual as the response coordinator to manage the response efforts
- Petro49, Inc. will notify the appropriate State and Federal agencies.
- The response coordinator will restrict access of all unnecessary personnel from the spill site.
- The response coordinator will conduct an inventory of the contents to determine the quantity of material released.
- The response coordinator will develop a response plan that identifies and outlines the following activities:
    - Recovery and disposal of free phase petroleum
    - Identifying the presence of soil contamination, including surface delineation, such as field staking visibly contaminated areas of soil
    - Designation an area for stockpiling contaminated soils in accordance with ADEC short-term stockpile guidelines
- Direction of the spill response contractor(s) using appropriate equipment (e.g., backhoes, bulldozers, front-end loaders and trucks)
- Assess the potential for subsurface or ground water contamination.
- Decontamination and/or disposal of contaminated equipment and media.

REFERENCES

Code of Federal Regulations, Title 40, Part 112. U.S. Environmental Protection Agency Regulations on Oil Pollution Prevention. September 3, 2015.

Code of Federal Regulations, Title 40, Part 122, U.S. Environmental Protection Agency Administered Permit Programs: The National Pollutant Discharge Elimination System, September 28, 2015.

Steel Tank Institute (STI), Standard SP001, 5th Edition, Standard for Inspection of Aboveground Storage Tanks. September 2011.

Sullivan, T. (ed) (2007) Environmental Law Handbook, 19th edition, Lanham: Government Institutes.

United States Code, Title 33, Chapter 26, Federal Water Pollution Control Act (Clean Water Act), enacted June 30, 1948, amended 1972, 1977, 1987.

APPENDIX A

TANK TABLES AND FIGURES

Table A-1 Potential Spill Sources 55 Gallons or Greater

Tank ID (or # of Containers)	Location Description / Construction	Contents	Volume (bbls)	Volume (gal)	Containment Description	Overfill / Discharge Control	Const. Std.	Visual Inspection By Owner / Operator	Year Built / Installed	Date of Next Certified Internal/External Inspection
BULK OIL STORAGE CONTAINERS – ABOVEGROUND – NON-PORTABLE										
1	Skagway Bulk Plant, Tank Farm AST, Welded Steel	Unleaded Gasoline	25,117	1,054,872	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	unknown	Monthly & Annual	1965	2016
2	Skagway Bulk Plant, Tank Farm AST, Welded Steel	Ultra Low Sulfur Diesel (ULSD)	9,870	414,540	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 650	Monthly & Annual	1970	2017
3	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD	9,870	414,540	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 650	Monthly & Annual	1965	2019
4	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD	3,777	158,634	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1947	2020
5	Skagway Bulk Plant, Tank Farm AST, Welded Steel	Super Unleaded Gasoline	3,777	158,634	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1947	2020
6	Skagway Bulk Plant, Tank Farm AST, Welded Steel	Jet A	5,439	228,396	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1947	2020
7	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD	4,297	180,474	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1947	2018
8	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD	2,337	98,112	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1937	2020
9	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD	1,679	70,518	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1942	2018

Tank ID (or # of Containers)	Location Description / Construction	Contents	Volume (bbls)	Volume (gal)	Containment Description	Overfill / Discharge Control	Const. Std.	Visual Inspection By Owner / Operator	Year Built / Installed	Date of Next Certified Internal/External Inspection
10	Skagway Bulk Plant, Tank Farm AST, Welded Steel l	Super Unleaded Gasoline	508	21,336	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1956	2019
11	Skagway Bulk Plant, Tank Farm AST, Welded Steel	AV/100	508	21,336	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 12C	Monthly & Annual	1965	2016
12	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD	16,786	536,088	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 650	Monthly & Annual	1995	2020
13	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD	16,786	704,970	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	API 650	Monthly & Annual	1995	2020
14	Skagway Bulk Plant, Tank Farm AST, Welded Steel	ULSD (flex tank)	15,470	649,698	Diked, impermeable liner	Sight Gauge & High Level Alarm set to 90%	unknown	Monthly & Annual	1950	2020
15	Warehouse/Office Shop built	Heating Oil	9	275	NA	Sight Gauge	STI SP001	Monthly & Annual	unknown	n/a
M1	Fuel Dock, Shop built	ULSD	318	10,000	Self-diked	High Level Alarm set to 90%	STI SP001	Monthly & Annual	unknown	n/a
M2	Fuel Dock, Shop built	Gasoline	318	10,000	Self-diked	High Level Alarm set to 90%	STI SP001	Monthly & Annual	unknown	n/a
C1	Cardlock Gas Station, Shop built	Gasoline & Diesel	635	20,000	Self-diked	Sight Gauge	STI SP001	Monthly & Annual	unknown	n/a
			117,501	4,752,423						
BULK OIL STORAGE CONTAINERS – MOBILE										
10 totes	Totes stored w/in TTLR area	Additive	78	330 each 3,300 total	Diked, impermeable liner	No Filling Onsite	Plastic	Monthly & Annual	n/a	n/a
BULK OIL STORAGE CONTAINERS – PORTABLE										
60	Skagway Bulk Plant, Warehouse	Lube Oil	105	55 each 3,300 total	Concrete Floor/Drum Spill Pallets	No Filling Onsite	2	Monthly & Annual	New	n/a
Total On-Site Oil Volume Storage			**117,684**	**4,759,023**	*n/a: Non-Applicable*					

Table A-2 Fuel Truck Volumes

Fuel Truck #	Compartment 1 (gallons)	Compartment 2 (gallons)	Compartment 3 (gallons)	Compartment 4 (gallons)	Total Capacity (gallons)
1 2002 International	700	800	1300	n/a	2,800
2 1990 Chevy	1000	500	500	800	2,800

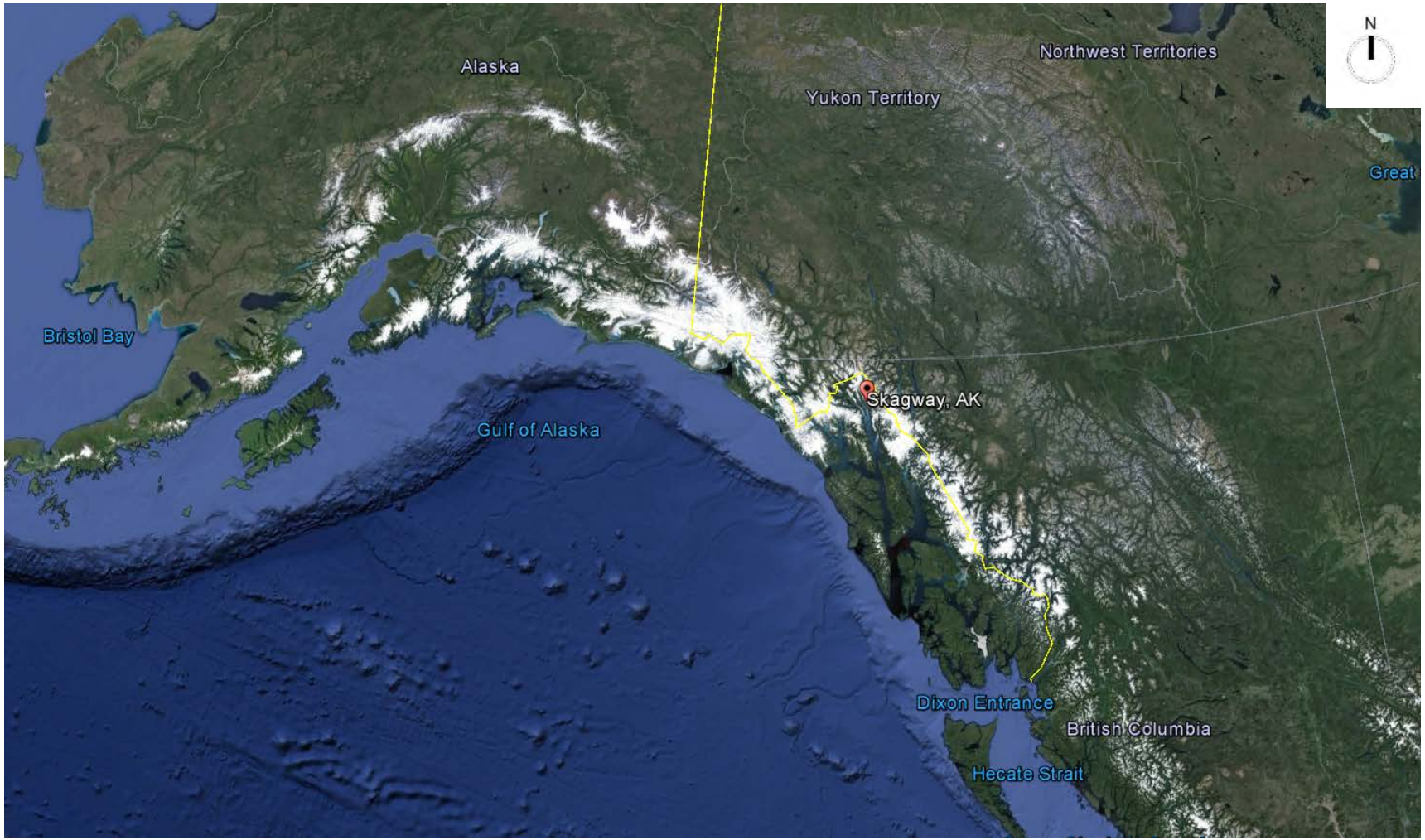


Figure A-1 Regional Location

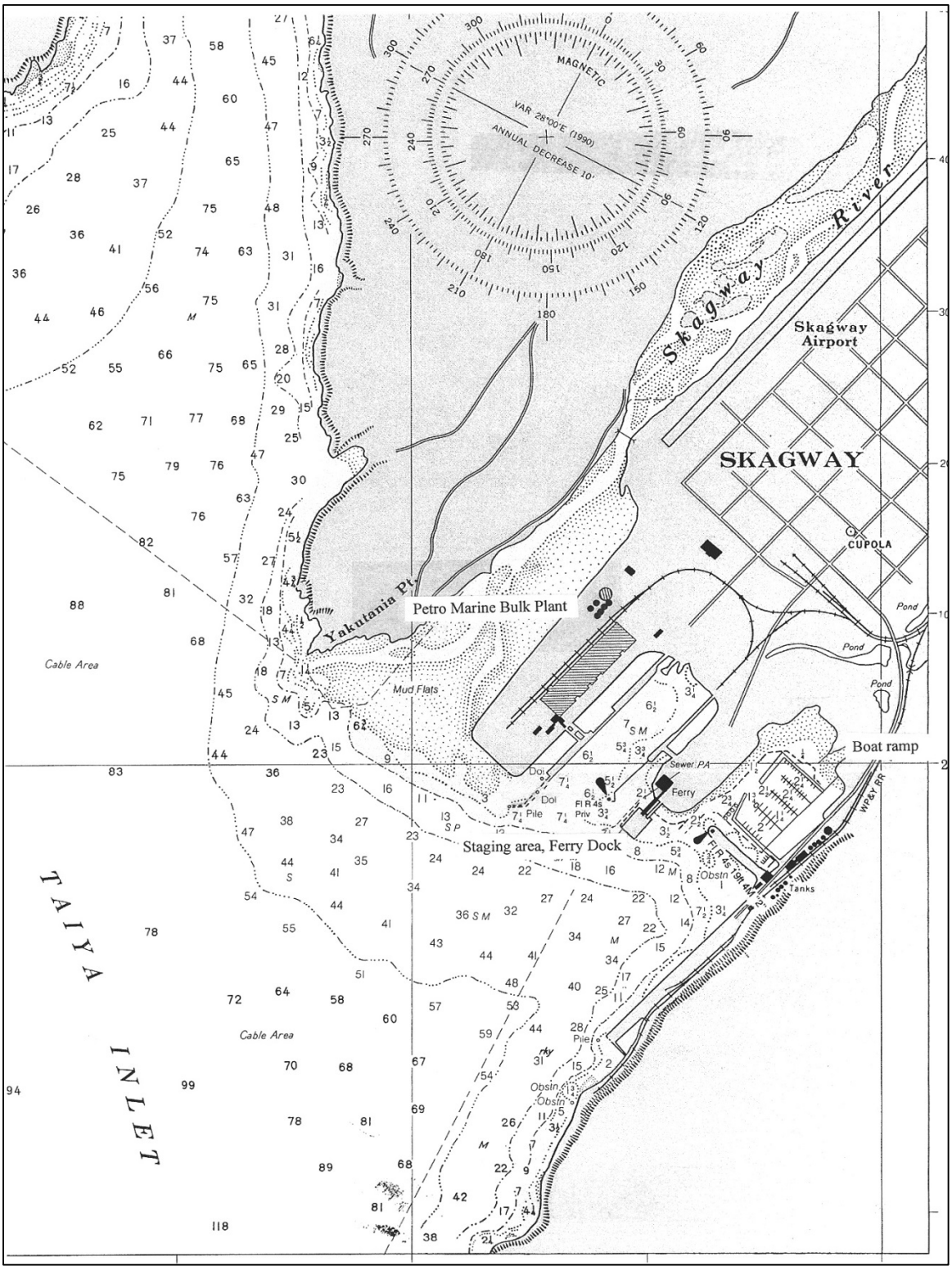


Figure A-2 Location Map

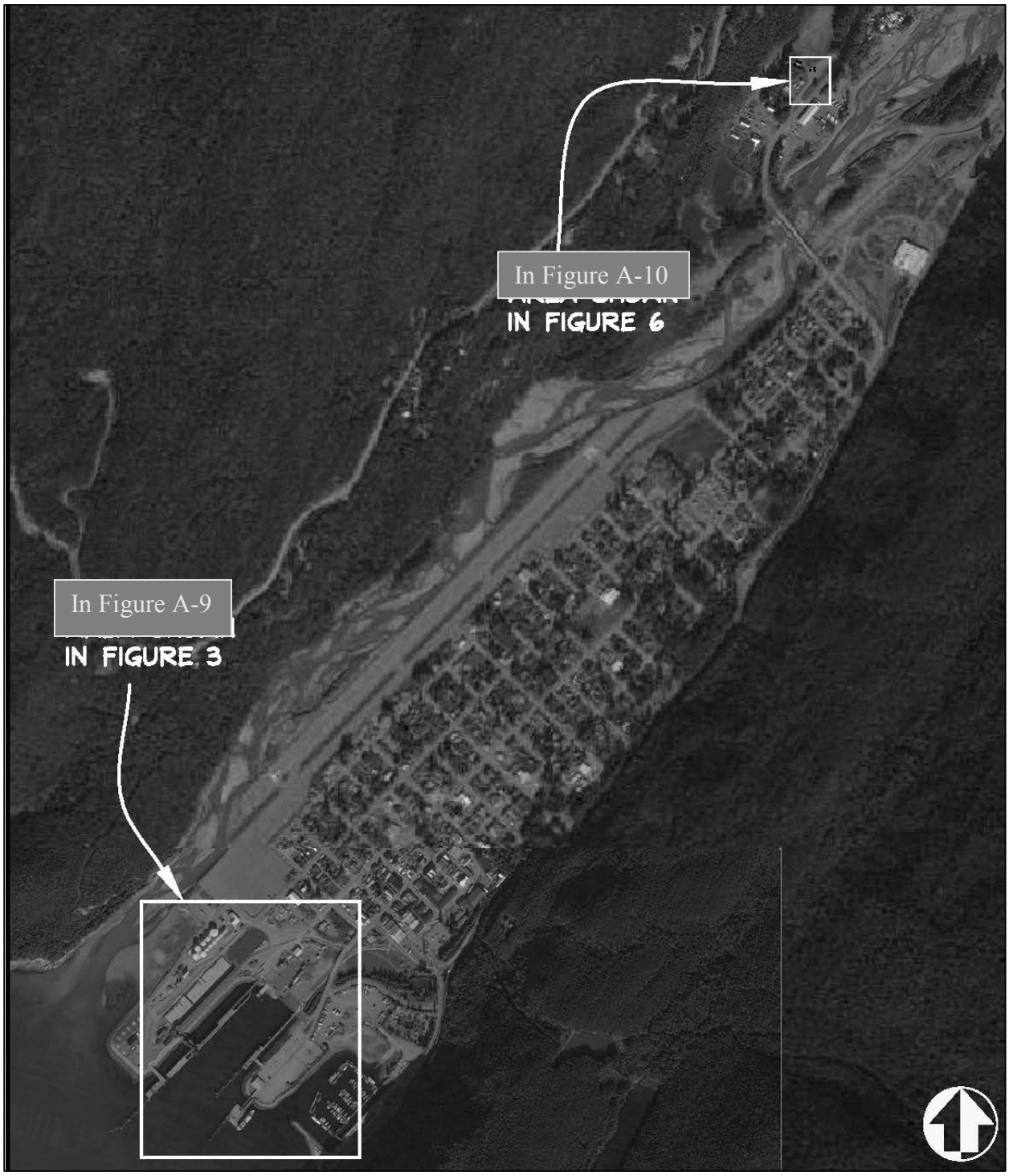


Figure A-3 Vicinity Map

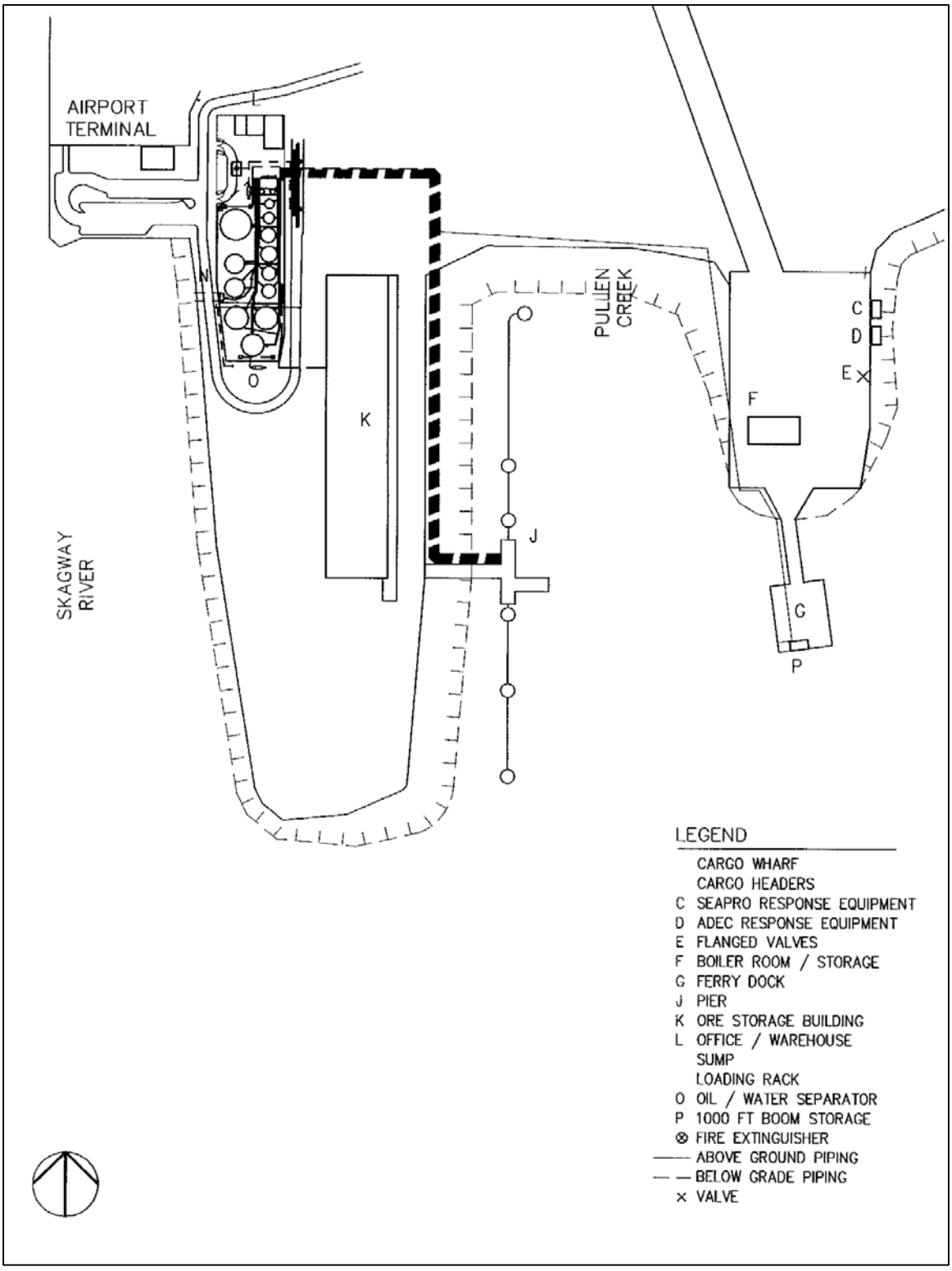


Figure A-4 Skagway Site Plan

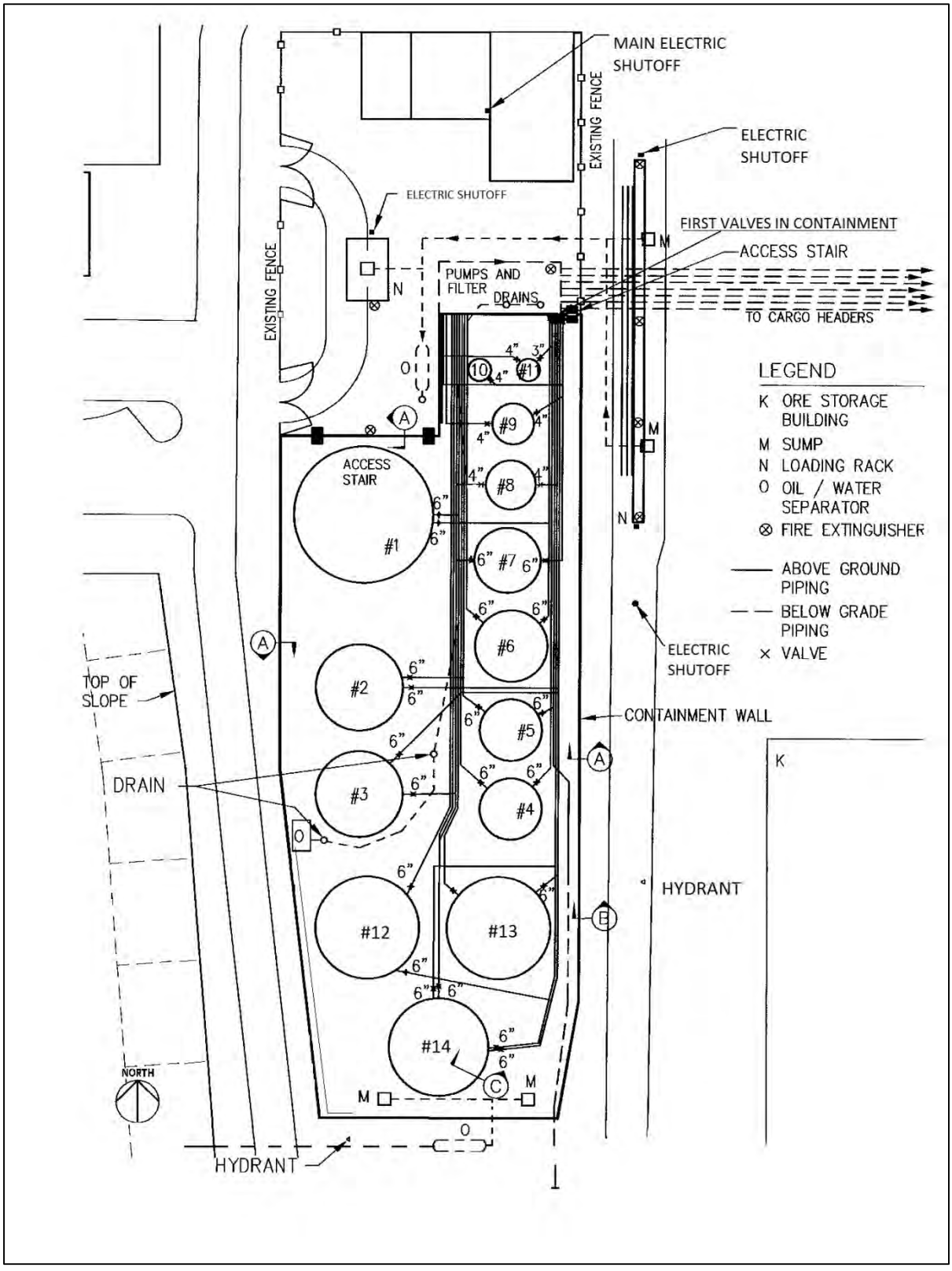


Figure A-5 Skagway Plant Tank Farm

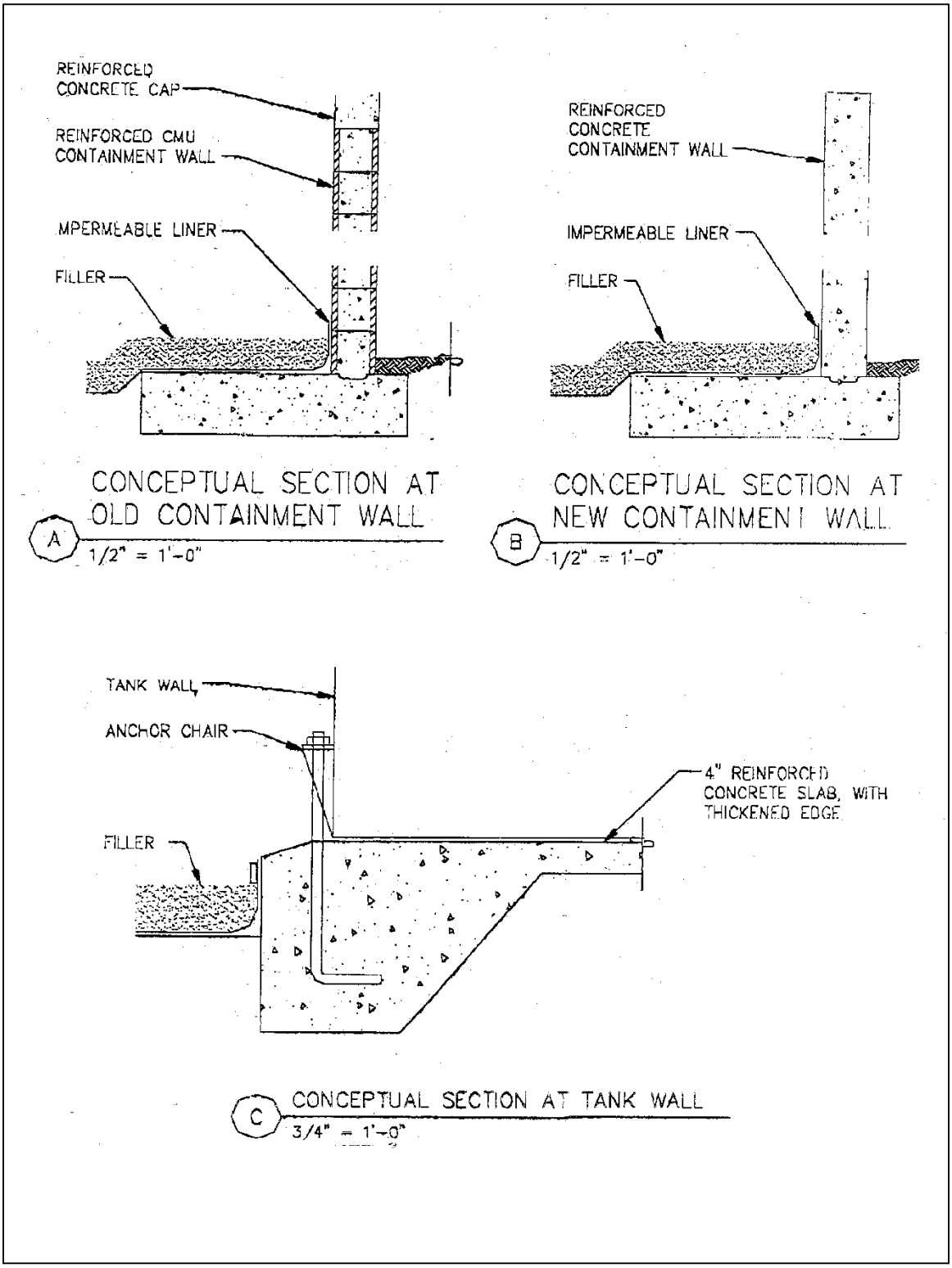


Figure A-6 Skagway Tank Foundations & Containment Wall

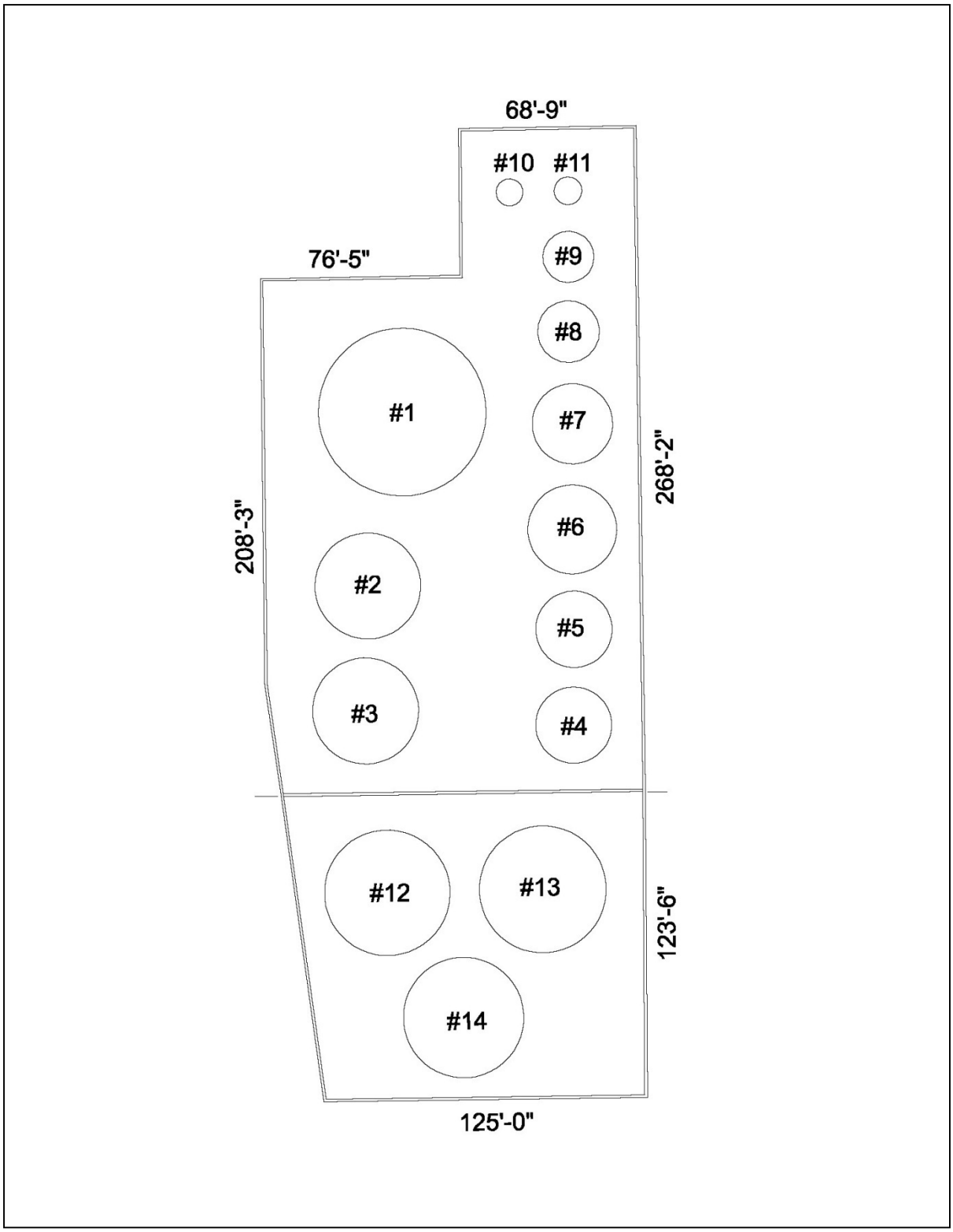


Figure A-7 Skagway Containment Dimensions

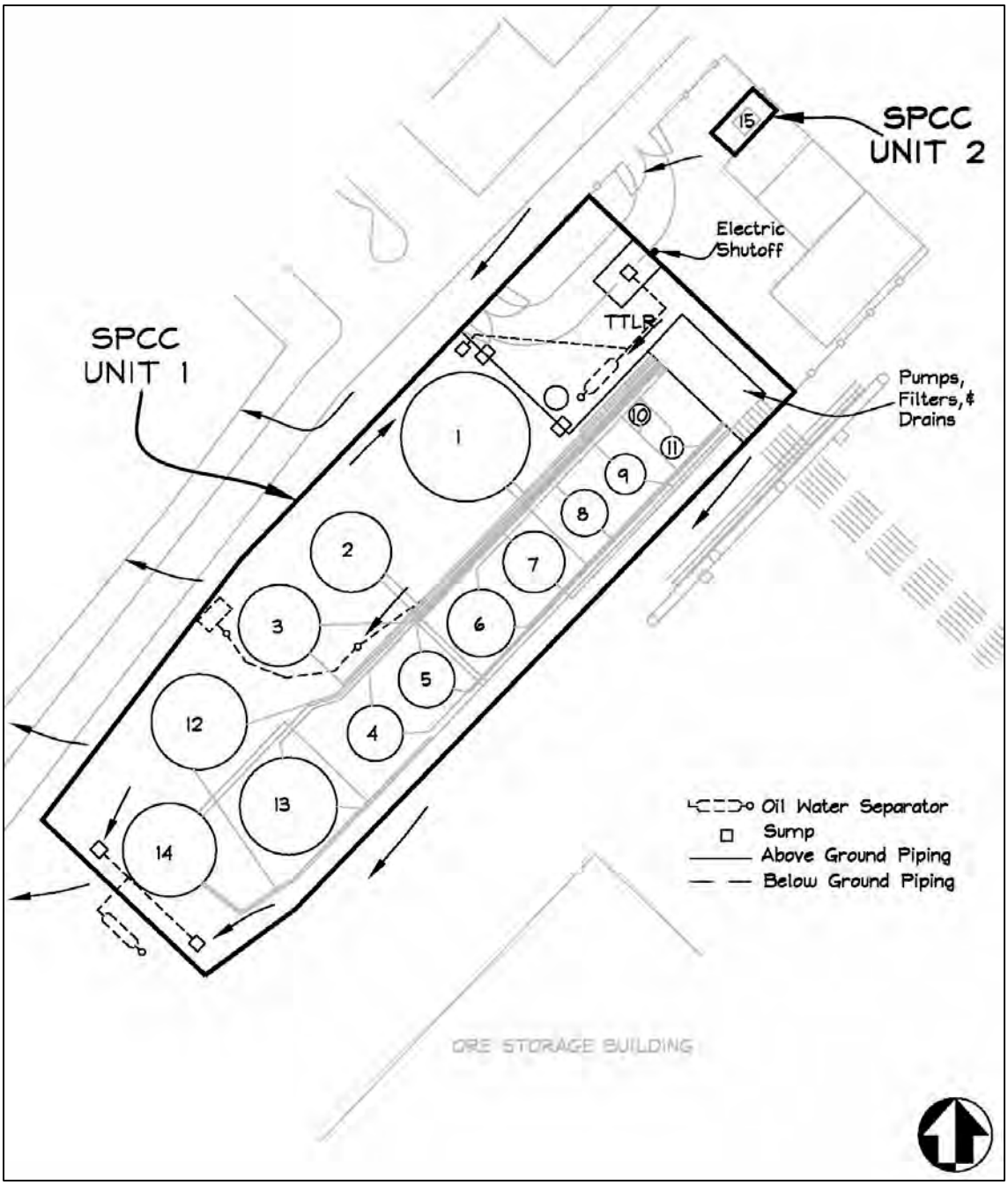


Figure A-8 Bulk Plant SPCC Units and Flow Directions

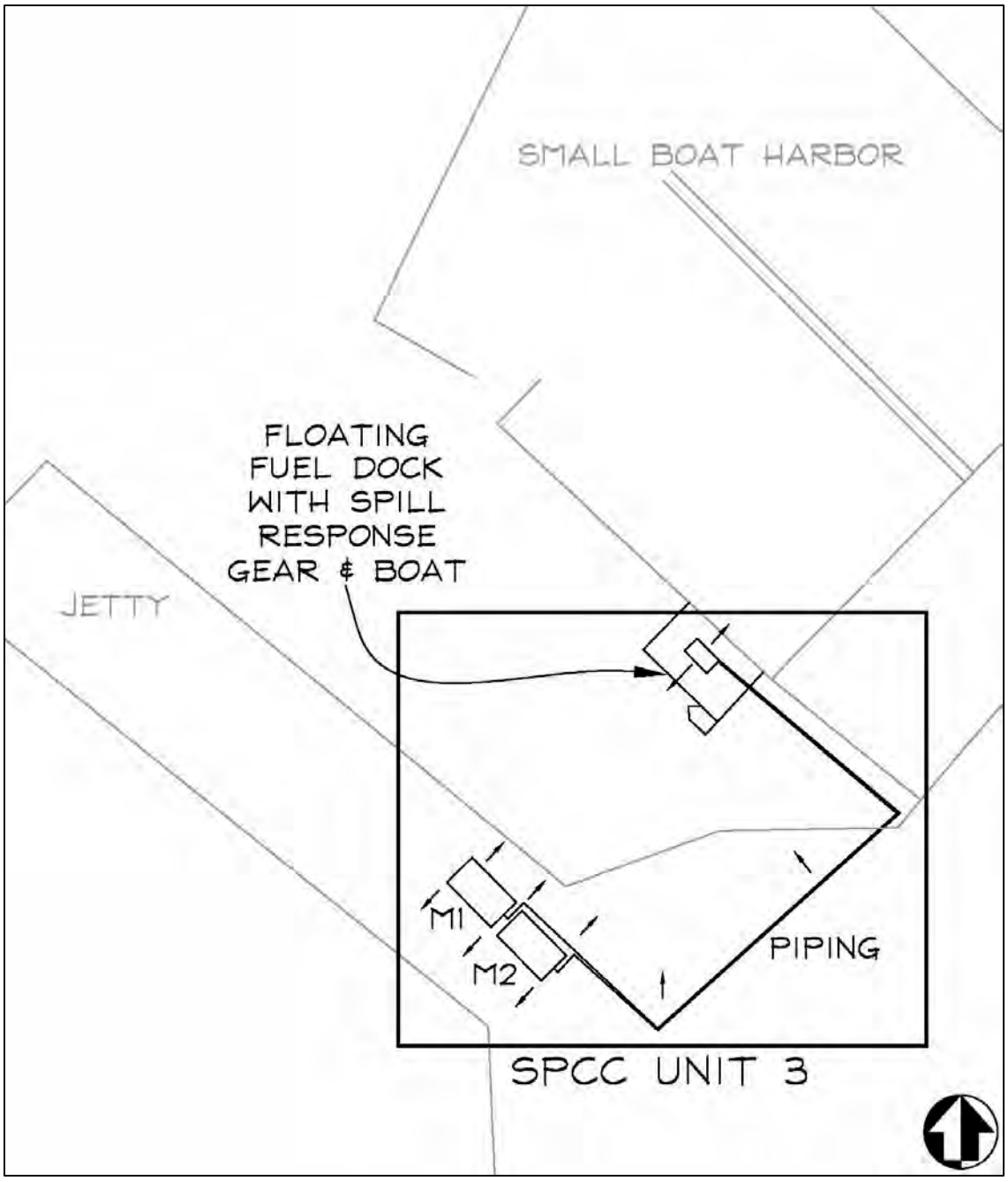


Figure A-9 Fuel Dock SPCC Unit 3 and Flow Directions

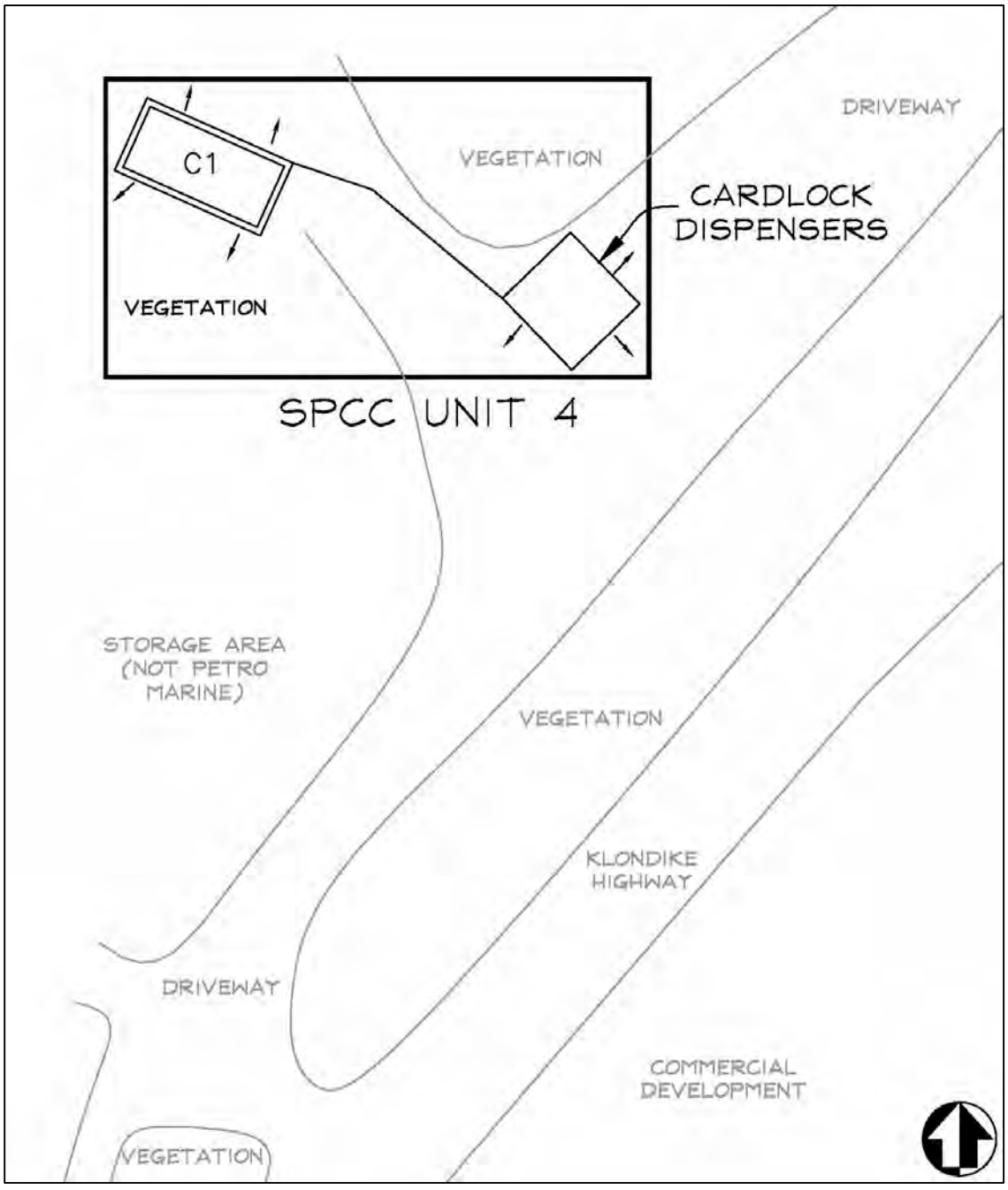


Figure A-10 Cardlock SPCC Unit and Flow Directions

APPENDIX B

CONTACT AND NOTIFICATION INFORMATION

Figure B-1 Oil and Hazardous Substance Spill Placard

Alaska Department of Environmental Conservation

Discharge Notification and Reporting Requirements

AS 46.03.755 and 18 AAC 75 Article 3

Notification of a discharge must be made to the **nearest** Area Response Team during working hours:

Anchorage:	**269-3063** **269-7648 (FAX)**	**Fairbanks:**	**451-2121** **451-2362 (FAX)**	**Juneau:**	**465-5340** **465-2237 (FAX)**

OR

to the 24-Hour Emergency Reporting Number during non-working hours: **1-800-478-9300**

Notification Requirements

Hazardous Substance Discharges

Any release of a hazardous substance must be reported as soon as the person has knowledge of the discharge.

Oil Discharges

- **TO WATER**
  - Any release of oil to water must be reported as soon as the person has knowledge of the discharge.
- **TO LAND**
  - Any release of oil in ***excess of 55 gallons*** must be reported as soon as the person has knowledge of the discharge.
  - Any release of oil in ***excess of 10 gallons but less than 55 gallons*** must be reported within 48 hours after the person has knowledge of the discharge.
  - A person in charge of a facility or operation shall maintain, and provide to the Department on a monthly basis, a written record of any discharge of oil ***from 1 to 10 gallons***.
- **TO IMPERMEABLE SECONDARY CONTAINMENT AREAS**
  - Any release of oil ***in excess of 55 gallons*** must be reported within 48 hours after the person has knowledge of the discharge.

Special Requirements for Regulated Underground Storage Tank (UST) Facilities*

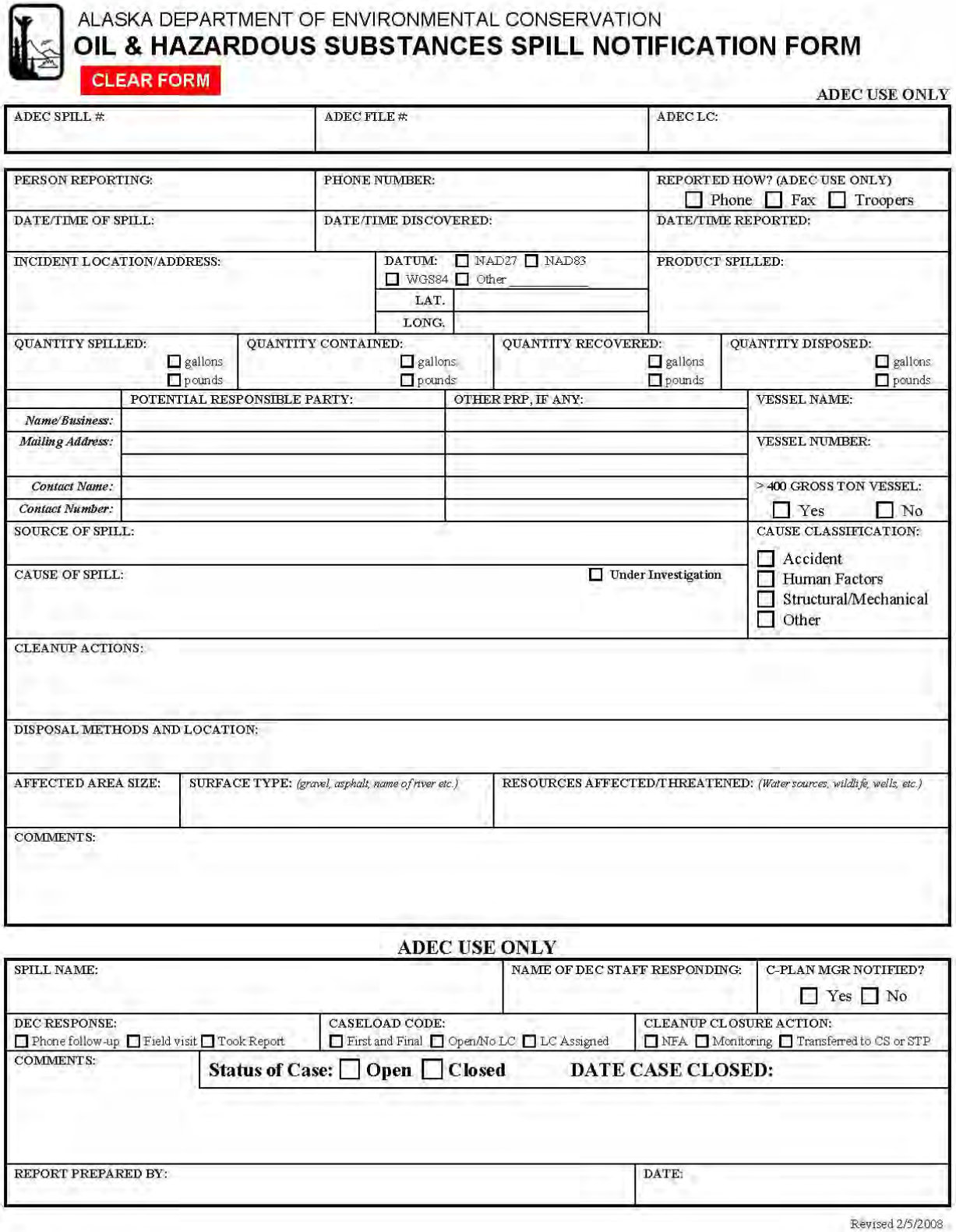
If your **release detection system** indicates a possible discharge, or if you notice **unusual operating conditions** that might indicate a release, you must notify the Storage Tank Program at the nearest DEC Office **within 7 days**:

Anchorage:	(907) 269-7504	Fairbanks:	(907) 451-2360
Juneau:	(907) 465-5200	Soldotna:	(907) 262-5210

*Regulated UST facilities are defined at 18 AAC 78.005 and do not include heating oil tanks.

rev. May/2005

Figure B-1 Oil and Hazardous Substance Spill Placard, Continued



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

OIL & HAZARDOUS SUBSTANCES SPILL NOTIFICATION FORM

CLEAR FORM

ADEC USE ONLY

ADEC SPILL #:	ADEC FILE #:	ADEC LC:

PERSON REPORTING:	PHONE NUMBER:	REPORTED HOW? (ADEC USE ONLY) ☐ Phone ☐ Fax ☐ Troopers
DATE/TIME OF SPILL:	DATE/TIME DISCOVERED:	DATE/TIME REPORTED:
INCIDENT LOCATION/ADDRESS:	DATUM: ☐ NAD27 ☐ NAD83 ☐ WGS84 ☐ Other _____ LAT. LONG.	PRODUCT SPILLED:
QUANTITY SPILLED: ☐ gallons ☐ pounds	QUANTITY CONTAINED: ☐ gallons ☐ pounds	QUANTITY RECOVERED: ☐ gallons ☐ pounds
QUANTITY DISPOSED: ☐ gallons ☐ pounds		

	POTENTIAL RESPONSIBLE PARTY:	OTHER PRP, IF ANY:	VESSEL NAME:
Name/Business:			
Mailing Address:			VESSEL NUMBER:
Contact Name:			>400 GROSS TON VESSEL: ☐ Yes ☐ No
Contact Number:			

SOURCE OF SPILL:	CAUSE CLASSIFICATION: ☐ Accident ☐ Human Factors ☐ Structural/Mechanical ☐ Other
CAUSE OF SPILL: ☐ Under Investigation	
CLEANUP ACTIONS:	
DISPOSAL METHODS AND LOCATION:	

AFFECTED AREA SIZE:	SURFACE TYPE: *(gravel, asphalt, name of river etc.)*	RESOURCES AFFECTED/THREATENED: *(Water sources, wildlife, wells, etc.)*
COMMENTS:		

ADEC USE ONLY

SPILL NAME:	NAME OF DEC STAFF RESPONDING:	C-PLAN MGR NOTIFIED? ☐ Yes ☐ No
DEC RESPONSE: ☐ Phone follow-up ☐ Field visit ☐ Took Report	CASELOAD CODE: ☐ First and Final ☐ Open/No LC ☐ LC Assigned	CLEANUP CLOSURE ACTION: ☐ NFA ☐ Monitoring ☐ Transferred to CS or STP
COMMENTS:	**Status of Case: ☐ Open ☐ Closed**	**DATE CASE CLOSED:**
REPORT PREPARED BY:		DATE:

Revised 2/5/2008

Figure B-2 Spill Notification Form

Table B-1 Who To Call In Case Of A Spill

NAME	SPILL SIZE	VERBAL REPORT	WRITTEN REPORT	TELEPHONE NUMBER
Qualified Individual On Duty, Petro49, Inc., Seward office	Any spill	Immediately	None	907-224-3190 (office hours) 907-562-5000 (after hours)
Tim Cochran, Terminal Manager Initial Incident Commander Pollution Prevention Officer	Any spill	Immediately	None	907-983-2259 (work) 907-983-2898 (after hours) 907-612-0049
Jim Roberts, Boom Deployment	As needed	None	None	907-983-2259 (work) 907-612-1100 (after hours)
Joe Hosford, Boom Deployment				907-612-0680 (cell) 907-983-2303 (home)
Lori Landers, Communications	As needed	None	None	907-983-2259 (work) 907-612-0126 (after hours)
On-call operator	As needed	None	None	907-209-5043
SEAPRO	As needed	Immediately	None	1-888-225-7676

Table B-2 Local Emergency Numbers

NAME	TELEPHONE NUMBER
Skagway Police, Fire, Medics	911 983-2232 (office line)
Harbormaster	612-0043
Health Clinic	612-3002
Alaska Power & Telephone	612-0733
KHNS Radio	766-2020
Public Works	612-0044

Table B-3 Spill Notification Numbers

AGENCY	SPILL SIZE	VERBAL REPORT	WRITTEN REPORT	TELEPHONE NUMBER
Alaska Department of Environmental Conservation (ADEC)	On Water: Any release of oil or a hazardous substance On land: Any hazardous substance other than oil. Oil – See placard.	Immediately Immediately See placard	Within 15 days after cleanup or, if no change occurs, within 15 days after the discharge.	Southeast Alaska Response Team: 907-465-5340 (ph) 907-465-2237 (fax) 24-hour number: 1-800-478-9300
National Response Center	Any spill in or threatening navigable waters, including adjoining shorelines.	Immediately	Not required	1-800-424-8802

APPENDIX C

INSPECTION CHECKLISTS

Record of Annual Discharge Prevention Briefings and Training

Briefings will be scheduled and conducted by the facility owner or operator for operating personnel at regular intervals to ensure adequate understanding of this SPCC Plan.
The briefings will also highlight and describe known discharge events or failures, malfunctioning components, and recently implemented precautionary measures and best practices. Personnel will also be instructed in operation and maintenance of equipment to prevent the discharge of oil, and in applicable pollution laws, rules, and regulations. Facility operators and other personnel will have an opportunity during the briefings to share recommendations concerning health, safety, and environmental issues encountered during facility operations.

Date	Subjects Covered	Employees in Attendance	Instructor(s)

Semi-Annual Emergency Response Equipment Inspection Log

The emergency response equipment must be inspected at least every six months and any items that have been used must be replaced. The emergency response equipment is currently located in a container van beside the Skagway Bulk Plant warehouse.

Date	Inspected By	Inventory Complete	Comments

PETRO49, INC.
PLANT INSPECTIONS

(Revised: 25 September 2012)

Name of Plant: _____

☐ **Daily Checks:**

	Checked
Storage Tanks & leak detection ports	☐ No damage or leaks
Secondary Containment for tanks	☐ Clean & has adequate capacity
O/W separator at the TTLR	☐ Sufficient capacity for spill
Signs of leaking valves, pumps, or pipes	☐ None
Pump-houses & warehouse locked	☐
Valves locked	☐
Yard secured and locked	☐

Remarks or problems noted: _____

_____

☐ **Monthly Checks:** (per API 653, Section 4.1.3 & response equipment inspection)

	Checked	
Hi Level Alarms	☐	
Auto-gauge Tape	☐	
Oil water separator	☐	
Tank Vents	☐	
Tank Valves:		
Inlet	☐	
Outlet	☐	
Water Drain	☐	
Tank Shell:		
Shell Settlement	☐	
Shell Coating	☐	
Shell Corrosion	☐	
Tank foundation & appurtenances	☐	
Pipe corrosion	☐	
Response equipment & OWS	☐	Secure & accessible

Remarks or problems noted: _____

_____

_____

☐ **Secondary Containment Drainage: Date:** _____

Water is free of pollutants (no sheen) ☐ Yes ☐ No

Estimate water depth in inches before draining: _____inches

Record start and stop times: Start time: _____ Stop time: _____

Provisions made for containing any pollutants: _____

_____

Signature of Inspector: _____ Date: _____

APPENDIX D

SPILL LOG; SPILL RESPONSE EQUIPMENT INVENTORY

EPA-Reportable Spill Record*

Date of Spill	Spill Location	Type of Oil Spilled	Quantity Spilled	Action Taken	Notifications Made

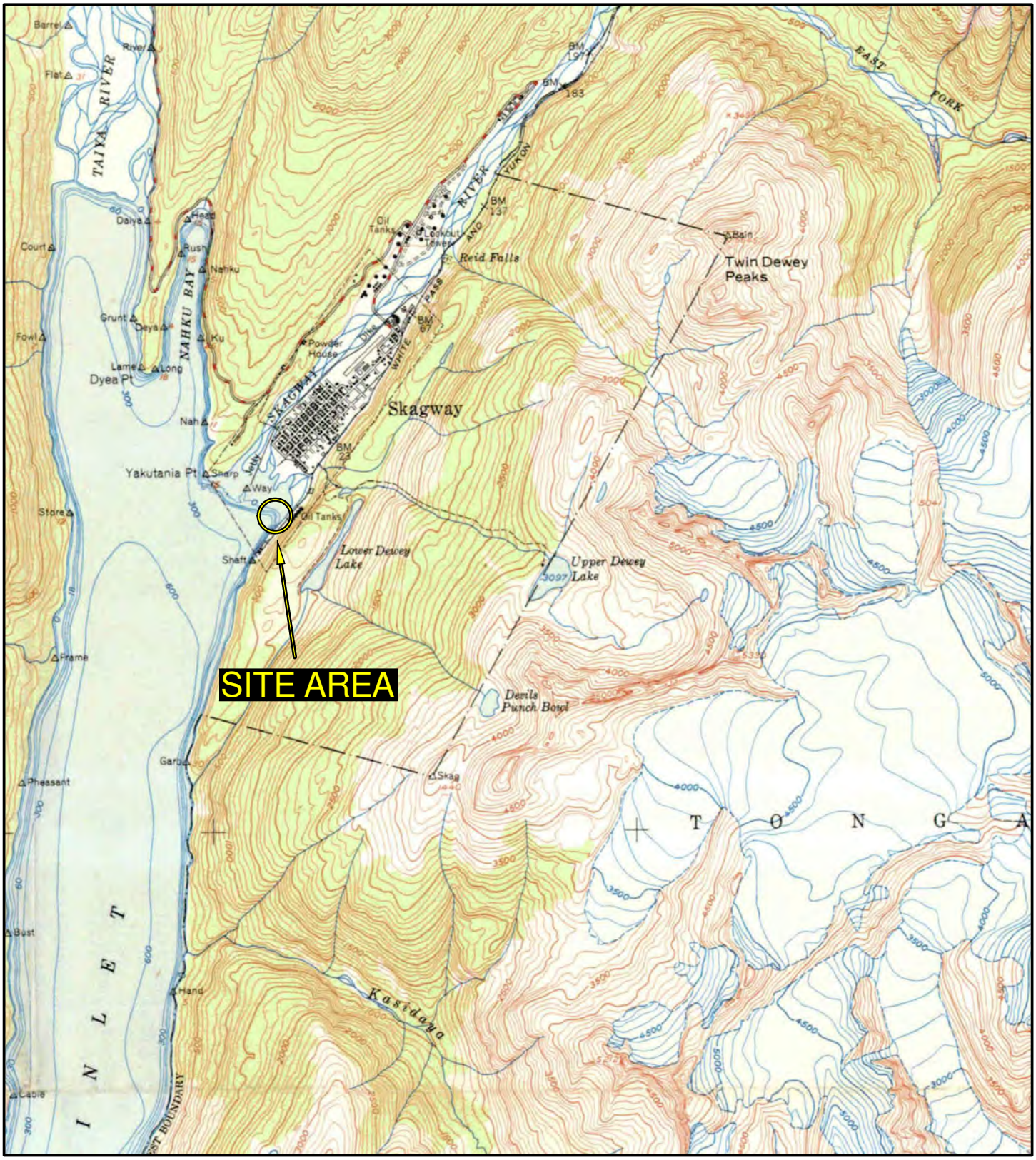
*EPA-reportable spills include those discharges of oil that:
(a) Violate applicable water quality standards; or
(b) Cause a film or sheen upon or discoloration of the surface of the water or adjoining shorelines or cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines.

Spill Response Equipment Inventory

Petro49, Inc. Petroleum spill response equipment is maintained in portable spill response equipment totes located at each property. The response equipment can be mobilized to the spill site in the event of a spill.

Quantity	Description	Location
Containment		
1,000 ft.	Kepner Seacurtain BHD 81208 RF (7'X13')	Ferry float
500 ft.	Kepner Seacurtain BHD 81208 RF (7'X13')	Warehouse
30 each	Sacks of Sorbent boom	Warehouse
Recovery		
1	MW41 rope mop skimmer, EDRC 48bbls	Warehouse
53	Bales sorbent pads, 100/bale	Warehouse
12	rolls sorbent material	Warehouse
24	sacks of sorbent sweeps	Warehouse
Transfer		
1	3 hp gasoline pump; 2" x 2" (160 gpm)	Warehouse
250 ft.	2 inch hose	Warehouse
150 ft.	1 ½ inch hose	Warehouse
Temporary storage		
2	tank truck, 2800 gal	Warehouse yard
12	Tanker trailers, 8250 gal each	North 60, Whitehorse
Boats		
1	18 ft. aluminum skiff w/90 HP outboard	Fuel float
Miscellaneous		
Assorted	Pipe repair clamps	Warehouse
Assorted	PPE	Personnel lockers

Appendix C



COX environmental services

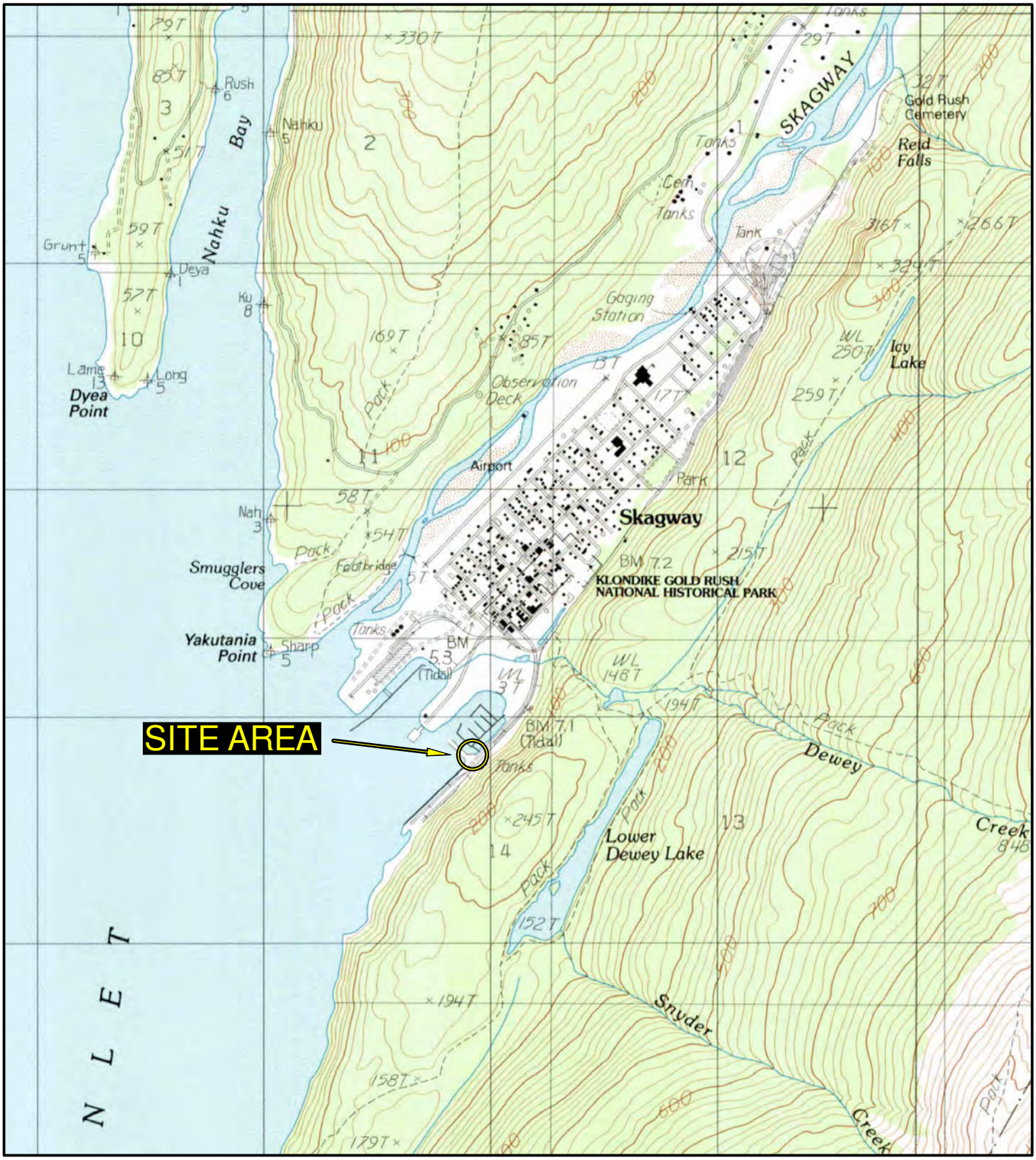
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

1951 TOPOGRAPHIC MAP

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018



COX environmental services
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

1991 TOPOGRAPHIC MAP

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018

COX environmental services
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

1948 AERIAL PHOTOGRAPH

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018

COX environmental services
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

1979 AERIAL PHOTOGRAPH

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018

COX environmental services
712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

Prepared for: **Petro Marine Services**

2003 AERIAL PHOTOGRAPH

PETRO MARINE SERVICES
MARINE FUEL STORAGE FACILITY
PTN. ATS CONTAINING 1,600 SF
TAX LOT 5A
SKAGWAY, ALASKA

Date:5.23.2018

Appendix D

Photograph 1. Looking northwest at the subject site.

Photograph 2. Looking north at the subject site.

Photograph 3. View of ASTs and piping.

Photograph 4. View of ASTs and piping.

Photograph 5. View of one of the fill ports.

Photograph 6. View of floating fuel dock.

Appendix E

JOLENE M COX
Principal Environmental Scientist

EDUCATION
B.S. Environmental Soil Science, Michigan State University, 1998
M.S. Environmental Microbiology, West Virginia University, 2004

SUMMARY
Ms. Cox is principal environmental scientist at Cox Environmental Services in Juneau. Her responsibilities include contaminated site investigations and cleanup, Phase I/II environmental site assessments, developing and implementing environmental sampling programs for air, water and soil, developing spill prevention plans and industrial storm water management plans. Ms. Cox has 18 years of broad experience in environmental management. This experience includes contaminated site investigation and remediation, human health risk assessment, storm water pollution prevention management and sampling in a variety of environmental media.

EXPERIENCE

COX ENVIRONMENTAL SERVICES/CARSON DORN, INC.
Ms. Cox joined Carson Dorn, Inc. as an Environmental Professional in March 2010 and formed Cox Environmental Services in 2016. During this time she has been project manager for a variety of site investigation, sampling, and remediation projects for private, municipal, and federal clients. Recent projects she has managed include: Phase I/II environmental site assessments, Spill Prevention, Control, and Countermeasure Plan development, and long term groundwater monitoring for Mendenhall Wastewater Treatment Plant in Juneau and the Jarvis Diesel Plant in Sitka.

SHELDON JACKSON COLLEGE
Ms. Cox taught two upper level science courses as adjunct faculty.

RBR CONSULTING, INC.
Ms. Cox conducted Human Health and Ecological Risk Assessments for private, municipal, state, and federal clients.

TRIAD ENGINEERING, INC.
Ms. Cox assisted in performance of site assessments at CERCLIS sites across West Virginia. She Performed file reviews and prepared Executive Summaries, Preliminary Assessments, Site Inspections, and Site Inspection Reassessments in accordance with CERCLA guidance. She Developed SAP/QAPP documents, performed field investigations, managed and tracked field and QA/QC samples and analytical results through the USEPA Contract Laboratory Program. She evaluated risk scenarios using the USEPA Hazard Ranking System software and performed preliminary human health and ecological risk assessments following USEPA RAGS and the WVDEP VRP guidelines.

Ms. Cox assisted Licensed Remediation Specialist in completing extensive site assessment of all environmental media and evaluating human and ecological risk for purposes of completing voluntary remediation projects at sites under the WV Voluntary Remediation Program. She performed field investigations, including sampling of soils, sediments, groundwater, and surface water. Performed fate and transport modeling of volatile organic vapors from groundwater and soils to surface structures; fate and transport modeling of groundwater contaminant discharge to adjacent surface water body; surface water mixing zone calculations using WVDEP DWR Water Quality Standards/Mixing Zones Implementation Guidance. Performed risk assessment calculations for residential and non-residential future land use scenarios using Superfund RAGS methodologies; preparing remedial action plans and final reports.

As Field Scientist, she conducted field activities during a Remedial Investigation and Interim Corrective Action under the West Virginia VRP at a natural gas extraction plant to delineate extent of dissolved phase and free phase non-aqueous phase liquids impacting groundwater and hydraulically connected surface water. Project included installation of piezometers; collection of soil and groundwater samples; performing aquifer tests and analyzing test data; collecting groundwater elevation data and evaluating groundwater flow characteristics.

She also assisted in the development of Alternate Concentration Limits (ACLs) for groundwater at an industrial wastewater treatment unit based on risk assessment of potential human health and ecological impacts to hydraulically connected surface waters. Project included determining physical and chemical characteristics of waste constituents; evaluating hydrogeological characteristics of the aquifer underlying the treatment unit, which included groundwater flow direction and quantity. And performed risk assessment calculations and ACL calculations using USEPA guidance for establishment of ACLs.

FIRM DESCRIPTION

Jolene M. Cox is Principal Environmental Scientist for Cox Environmental Services. Ms. Cox opened Cox Environmental Services in August 2016 to continue to **provide the broad range of environmental services previously performed at Carson Dorn, Inc. from 2010-2016**. She has 18 years of broad experience in the environmental field in West Virginia and Alaska including teaching environmental science as an adjunct professor.

cox environmental

ENVIRONMENTAL SERVICES

Cox Environmental Services provides a broad range of environmental consulting services to a variety of clients in Southeast Alaska including:

- Site Characterization
  - Environmental sampling of soil, groundwater, surface water, sediment, and air
  - Data Quality Assessment
  - Exposure Pathway Analysis & Risk Assessment
- Underground Storage Tanks
  - UST Closure
  - Site Characterization & Corrective Action Plans
  - Soil and Groundwater Remediation Design & Oversight
- Environmental Site Assessments
  - Due Diligence Evaluations including Transaction Screens, Phase I, and Phase II ESAs
- Permitting/Regulatory Compliance
  - Storm Water Pollution Prevention Plans (SWPPP)
  - Spill Prevention, Control, and Countermeasure Plans (SPCC)
  - Facility Response Plans (FRP)
  - NEPA Evaluations
- Indoor Air Quality/Industrial Hygiene Assessments
  - Indoor Air Quality Assessments
  - Mold Assessments