



File: 102.38.158

April 18, 2019

Mr. Dave Cieplik
Petro Star, Inc.
3900 C Street, Suite 401
Anchorage, AK 99503

**Re: Decision Document: Sourdough Fuel Bulk Plant
Cleanup Complete Determination**

Dear Mr. Cieplik:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the Sourdough Fuel Bulk Plant located at 418 Illinois Street in Fairbanks, Alaska. Based on the information provided to date, it has been determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment and no further remedial action will be required unless new information becomes available that indicates residual contaminants may pose an unacceptable risk.

This Cleanup Complete determination is based on the administrative record for the Sourdough Fuel Bulk Plant, which is located in the ADEC office in Fairbanks, Alaska. This decision letter summarizes the site history, cleanup actions and levels, and standard site closure conditions that apply.

Site Name and Location:

Sourdough Fuel Bulk Plant
418 Illinois Street
Fairbanks, Alaska, 99701

Name and Mailing Address of Contact Party:

Dave Cieplik
Petro Star, Inc.
3900 C Street, Suite 401
Anchorage, AK 99503

DEC Site Identifiers:

File No.: 102.38.158
Hazard ID.: 25481

Regulatory Authority for Determination:

18 AAC 75

Site Description and Background

On January 5, 2010, approximately 300 gallons of motor oil was released to the frozen ground when a tote spilled while being moved. During the spill response, the spilled fluid and contaminated snow were shoveled into drums. The spill occurred behind the main building of the Sourdough Fuel Bulk Plant facility. Chevron Environmental Management Company is responsible for a separate contaminated site at this property which is known as Saupe Enterprises, Inc. (ADEC File No. 102.38.006 and Hazard ID 162).

Contaminants of Concern

During the site characterization and cleanup activities at this site, samples were collected from soil and groundwater and analyzed for diesel range organics (DRO), residual range organics (RRO), and volatile organic compounds (VOCs). Based on these analyses, the following contaminants were detected above the applicable cleanup levels and are considered Contaminants of Concern at this site:

- DRO

Cleanup Levels

The most stringent of the method 2 soil cleanup levels for the under 40-inch precipitation zone established in 18 AAC 75.341 Tables B1 & B2 apply at this site.

The groundwater cleanup levels found in 18 AAC 75.345 Table C apply at this site

Contaminant	Soil (mg/kg)	Groundwater (mg/L)
DRO	250	1.5

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Characterization and Cleanup Activities

The motor oil spill at the site was determined to be Guardol QLT Motor Oil, which contained power transmission fluid HT/4. After the initial spill response, oil was found absorbed in the upper one to two inches of soil beneath the snow. Sourdough Fuel personnel continued cleanup activities in late April, 2010 by shoveling contaminated soil into drums. An area of 368 square feet was excavated. Excavation was limited to the north by a concrete slab.

Travis Peterson Environmental Consulting Inc. (TPECI) collected four soil samples at the excavation limits on April 22, 2010. DRO was found in the sample collected from the northwest corner of the excavation adjacent to the concrete slab at a concentration of 6,310 mg/kg. All other analytical results were below ADEC cleanup levels.

Groundwater in this area is monitored by the Chevron Environmental Management Company as part of the Saupe Enterprises, Inc. contaminated site. Subsequent monitoring events have not shown any contaminant increases related to the Sourdough Fuel Bulk Plant release. Although residual soil contamination remains above the migration to groundwater cleanup level, ADEC has determined that contamination in soil is at steady state equilibrium and will not migrate to groundwater.

Cumulative Risk Evaluation

Pursuant to 18 AAC 78.600(d), when detectable contamination remains on-site following a cleanup, a cumulative risk determination must be made that the risk from hazardous substances does not exceed a cumulative carcinogenic risk standard of 1 in 100,000 across all exposure pathways and does not exceed a cumulative non-carcinogenic risk standard at a hazard index of one across all exposure pathways.

Based on a review of the environmental record, ADEC has determined that residual contaminant concentrations meet the human health cumulative risk criteria for residential land use.

Exposure Pathway Evaluation

Following investigation and cleanup at the site, exposure to the remaining contaminants was evaluated using ADEC's Exposure Tracking Model (ETM). Exposure pathways are the conduits by which contamination may reach human or ecological receptors. ETM results show all pathways to be one of the following: De-Minimis Exposure, Exposure Controlled, or Pathway Incomplete. A summary of this pathway evaluation is included in Table 2.

Table 2 – Exposure Pathway Evaluation

Pathway	Result	Explanation
Surface Soil Contact	De-Minimis Exposure	Contamination was removed or does not exceed soil cleanup levels protective of human exposure.
Sub-Surface Soil Contact	De-Minimis Exposure	Contamination remaining in subsurface soil is below soil cleanup levels protective of human exposure.
Inhalation – Outdoor Air	De-Minimis Exposure	Contamination remaining in subsurface soil is below soil cleanup levels protective of human exposure.
Inhalation – Indoor Air (vapor intrusion)	De-Minimis Exposure	Remaining contamination in soil is limited in extent and is located in an industrial area not likely to be built over.
Groundwater Ingestion	De-Minimis Exposure	Groundwater was not affected by the spill.
Surface Water Ingestion	Pathway Incomplete	The nearest surface water, the Chena River, is more than ¼ mile away and contamination is not expected to migrate.
Wild and Farmed Foods Ingestion	Pathway Incomplete	The site is not located in an area where wild or farmed food could be impacted.
Exposure to Ecological Receptors	Pathway Incomplete	The site is not located in an area where ecological receptors could be impacted.

Notes to Table 2: “De-Minimis Exposure” means that in ADEC’s judgment receptors are unlikely to be adversely affected by the minimal volume or concentration of remaining contamination. “Pathway Incomplete” means that in ADEC’s judgment contamination has no potential to contact receptors. “Exposure Controlled” means there is an institutional control in place limiting land or groundwater use and there may be a physical barrier in place that prevents contact with residual contamination.

ADEC Decision

Soil contamination at the site has been cleaned up to concentrations suitable for residential land use. This site will receive a “Cleanup Complete” designation on the Contaminated Sites Database, subject to the following standard conditions.

Standard Conditions

1. Any proposal to transport contaminated soil or groundwater from a site that is subject to the site cleanup rules or for which a written determination from the department has been made under 18 AAC 75.380(d)(1) that allows contamination to remain at the site above method two soil cleanup levels or groundwater cleanup levels listed in Table C requires DEC approval in accordance with 18 AAC

75.325(i). A “site” as defined by 18 AAC 75.990 (115) means an area that is contaminated, including areas contaminated by the migration of hazardous substances from a source area, regardless of property ownership. (See attached site figure.)

2. Movement or use of contaminated material in a manner that results in a violation of 18 AAC 70 water quality standards is prohibited.
3. Groundwater throughout Alaska is protected for use as a water supply for drinking, culinary and food processing, agriculture including irrigation and stock watering, aquaculture, and industrial use. Contaminated site cleanup complete determinations are based on groundwater being considered a potential drinking water source. In the event that groundwater from this site is to be used for other purposes in the future, such as aquaculture, additional testing and treatment may be required to ensure the water is suitable for its intended use.

This determination is in accordance with 18 AAC 78.276(f) and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that contaminants at this site may pose an unacceptable risk to human health, safety, or welfare or to the environment.

Appeal

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Division Director, 410 Willoughby Avenue, Suite 303 or mail to P.O. Box 111800, Juneau, Alaska, 99811-1800, within 20 days after receiving the department’s decision reviewable under this section. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303 or mailed to P.O. Box 111800, Juneau, Alaska, 99811-1800, within 30 days after the date of issuance of this letter, or within 30 days after the department issues a final decision under 18 AAC 15.185. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have questions about this closure decision, please feel free to contact me at (907) 451-2131 or via email at megan.roberts@alaska.gov.

Sincerely,



Megan Roberts
Project Manager

cc (via email): Spill Prevention and Response, Cost Recovery Unit



Figure 1. Location of motor oil spill at 418 Illinois Street.