



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

**Department of Environmental
Conservation**

Division of Spill Prevention and Response
Contaminated Sites Program

610 University Ave.
Fairbanks, Alaska 99709-3643
Main: 907.451.2127
Fax: 907.451.5105

File: 100.38.155

February 28, 2014

Mr. Jeff Van Eyck
Dirty Deeds Towing
808 Joy Drive
North Pole, AK 99705

Re: Decision Document: Joy Drive Meth Lab
Cleanup Complete Determination

Dear Mr. Van Eyck:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the Joy Drive Meth Lab site, located at Dirty Deeds Towing, 808 Joy Drive, North Pole, 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.

The decision is based on the administrative record which is located in the offices of ADEC in Fairbanks, Alaska. This letter summarizes the decision process used to determine the environmental status of this site and provides a summary of the regulatory issues considered in the Cleanup Complete determination.

Site Name and Location:

Joy Drive Meth Lab
808 Joy Drive
North Pole, AK 99705

Name and Mailing Address of Contact Party:

Mr. Jeff Van Eyck
Dirty Deeds Towing
P.O. Box 74663
Fairbanks, AK 997047

DEC Site Identifiers:

File No: 100.38.155
Hazard ID: 3661

Regulatory Authority for Determination:

18 AAC 75

Site Description and Background:

The site was discovered on May 23, 2000, during cleanup activities of a methamphetamine lab. The ADEC staff person on site observed an estimated 30-gallon used oil spill floating on a large puddle in the area and noted a separate water puddle that appeared to contain green sheen, possibly due to a

glycol release. ADEC collected two surface water samples. Total petroleum hydrocarbons were detected at 958 milligrams per liter. No glycol was detected.

Contaminants of Concern

Surface water and groundwater samples were collected and analyzed for diesel range organics (DRO); gasoline range organics (GRO); and benzene, toluene, ethylbenzene, and total xylenes (BTEX), and glycols. Based on knowledge of the source area, the following Contaminants of Concern may have been present on the site:

- DRO
- GRO
- BTEX

Cleanup Levels

The default cleanup levels established for this site are established in 18 AAC 75.341, Method Two, Table B1 and B2 Migration to Groundwater Pathway for the Under 40 inch Zone.

Table 1 – Approved Cleanup Levels

Contaminant	Soil (mg/kg)	Groundwater (mg/L)
DRO	250	1.5
GRO	300	2.2
Benzene	150	0.005
Ethylbenzene	10,100	0.7
Toluene	8,100	1.0
Xylenes	63	10

Characterization and Cleanup Activities

On September 23, 2008, ADEC sent a letter to the property owner inquiring about the status of characterization and cleanup activities. On April 27, 2009, the property owner responded to the letter informing ADEC that he had removed oil from the water puddles with absorbent pads and had scraped up and disposed of any potentially contaminated soil at OIT, Inc. All other debris related to the spill area was disposed of at an unknown landfill. The property owner also indicated that, soon after the cleanup, North Star Construction excavated the spill area to a depth of approximately 5 feet, and backfilled with clean gravel in order to construct a cement pad and garage building over the spill area.

In an attempt to confirm soil treatment had occurred, ADEC requested thermal remediation records for the contaminated soil from OIT, Inc. OIT stated that they are familiar with the property owner, but had lost many records due to a fire at their facility and had no records of this transaction.

On September 27, 2013, ADEC conducted a site visit and collected a groundwater sample from a drinking water well housed within the garage. The property owner indicated that this well point was installed to a depth of 25-30 feet. The well is located within the vicinity of the spill area. Trace amounts of DRO were detected at 0.0438 mg/L, below the groundwater cleanup level established in 18 AAC 75.345, Table C. BTEX and GRO were not detected in the sample.

During the September 2013 site visit, the property owner was also working with ADEC's Prevention and Emergency Response Program to conduct additional cleanup of soil stains and waste stored at the site.

Cumulative Risk Evaluation

Pursuant to 18 AAC 75.325(g), 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 noncarcinogenic 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 do not pose a cumulative human health risk.

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	Pathway Incomplete	Contamination in surface soil is assumed to have been removed following the initial response.
Sub-Surface Soil Contact	De-Minimis Exposure	The presence on contamination in subsurface soil was never verified. A building has been built over the spill location.
Inhalation – Outdoor Air	De-Minimis Exposure	The presence on contamination in subsurface soil was never verified. A building has been built over the spill location.
Inhalation – Indoor Air (vapor intrusion)	De-Minimis Exposure	Excavation to a depth of 5 feet with clean backfill was reported to have occurred prior to building construction. Vapor intrusion is unlikely at this location.
Groundwater Ingestion	De-Minimis Exposure	Contamination was not detected in the onsite well above groundwater cleanup levels.
Surface Water Ingestion	Pathway Incomplete	Surface water is not used as a drinking water source in the vicinity of the site.
Wild and Farmed Foods Ingestion	Pathway Incomplete	Contaminants of concern do not have the potential to bioaccumulate in plants or animals.
Exposure to Ecological Receptors	Pathway Incomplete	Ecological receptors are not likely to be exposed to contamination from this spill.

Notes to Table 2: “De-Minimis Exposure” means that in ADEC’s judgment receptors are unlikely to be 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 administrative mechanism in place limiting land or groundwater use, or a physical barrier in place that deters contact with residual contamination.

ADEC Decision

Any remaining petroleum contamination on the site is assumed to be at minimal concentrations or amounts, and if present, is located beneath a building. ADEC has determined there is no unacceptable risk to human health or the environment. Remaining petroleum contamination in soil

is below approved cleanup levels. This site will receive a "Closed" designation on the Contaminated Sites Database, subject to the following standard conditions.

Standard Conditions

1. Any proposal to transport soil or groundwater off-site requires ADEC approval in accordance with 18 AAC 78.600(h). 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.

This determination is in accordance with 18 AAC 75.380 and does not preclude ADEC 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.

The ADEC Contaminated Sites Database will be updated to reflect the change in site status as detailed above, and will include a description of the contamination remaining at the site.

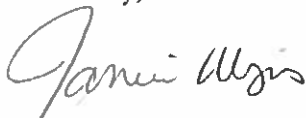
This determination is in accordance with 18 AAC 75.380 and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment.

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, Juneau, Alaska 99801, within 15 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, Juneau, Alaska 99801, 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.

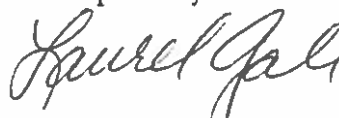
If you have questions about this closure decision, please feel free to contact me at (907) 451-2127.

Sincerely,



Janice Wiegiers
Environmental Program Specialist

Prepared by:



Laurel Gale
Graduate Intern



Site Figure