

# STATE OF ALASKA

SEAN PARNELL, GOVERNOR

DEPT. OF ENVIRONMENTAL CONSERVATION  
**DIVISION OF SPILL PREVENTION AND RESPONSE**  
**CONTAMINATED SITES PROGRAM**

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File: #2245.38.024

June 16, 2011

Jim Kincaid  
Alaska Corporation of Seventh Day Adventists  
6100 O'Malley Road  
Anchorage, AK 99507

Re: Decision Document; Maud Road Heating Oil Tank  
Cleanup Complete Determination

Dear Mr. Kincaid:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the Maud Road Heating Oil Tank site in Palmer, 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 this site will be closed

This decision is based on the administrative record for the Maud Road Heating Oil Tank site, which is located in the offices of the ADEC in Anchorage, 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.

## **Introduction**

### Site Name and Location

Maud Road Heating Oil Tank  
Mile 1 Maud Road  
Palmer, Alaska

### Name and Mailing Address of Contact Party:

Jim Kincaid  
Alaska Corporation of Seventh Day Adventists  
6100 O'Malley Road  
Anchorage, AK 99507

ADEC Site Identifiers:

Hazard ID #4090

CS file # 2245.38.024

Regulatory authority under which the site is being cleaned up:

18 AAC 75

**Background**

Petroleum hydrocarbon contamination in soil was noted during the excavation of a 500-gallon heating oil tank.

**Contaminants of Concern**

During tank removal and investigation activities at this site, soil and groundwater samples were analyzed for diesel range organics (DRO), gasoline range organic (GRO) and benzene, toluene, ethylbenzene, and xylenes (BTEX). Based on the results of these investigations, the following contaminant of concern was identified in soil:

- DRO

**Cleanup Levels**

The default soil cleanup levels for this site are established in 18 AAC 75.341, Method Two, Table B2, Under 40 Inch Zone, Migration to Groundwater.

<u>Contaminant</u>	<u>MTG Site Cleanup Level (mg/kg)</u>
• DRO	250

**Site Characterization and Cleanup**

Following the removal of the 500-gallon heating oil tank, approximately 10 cubic yards of petroleum contaminated soil were excavated and thermally treated at Alaska Soil Recycling. One of the confirmation soil samples collected from the excavated areas with the highest field screening results contained DRO at 344 mg/kg. The second sample did not contain detectable concentrations of contaminants and BTEX was not detected in either of the two confirmation samples.

Groundwater was not located during the excavation and is reportedly found at 35-40 feet below ground surface in this area. Following the tank removal, an on-site drinking water well was sampled for DRO, GRO, and BTEX. No contaminants of concern were detected in the drinking water well.

**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 1.

**Table 1 – Exposure Pathway Evaluation**

<b>Pathway</b>	<b>Result</b>	<b>Explanation</b>
Direct Contact with Surface Soil	Pathway Incomplete	Hydrocarbon contaminated soil is not located at the surface
Direct Contact with Sub-Surface Soil	De Minimis Exposure	Hydrocarbon contaminated subsurface soil has been largely excavated from the site and remaining contamination is de minimis in quantity.
Inhalation-Outdoor Air	De Minimis Exposure	Risk via this pathway is considered insignificant due to the de minimis nature of the remaining contamination, and the presence of clean fill over remaining contamination.
Inhalation-Indoor Air	De Minimis Exposure	Risk via this pathway is considered insignificant due to the de minimis nature of the remaining contamination, and the presence of clean fill over remaining contamination.
Groundwater Ingestion	Pathway Incomplete	Contamination was not detected in groundwater samples.
Surface Water Ingestion	Pathway Incomplete	Surface water is not utilized as a drinking water source in this area
Wild Foods Ingestion	Pathway Incomplete	Wild foods are not collected in this area.
Exposure to Ecological Receptors	Pathway Incomplete	There are no complete exposure routes to ecological receptors at the site.

Notes to Table 1: “De Minimis exposure” means that in ADEC’s judgment receptors are unlikely to be affected by the minimal volume 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**

The cleanup actions to date have served to excavate and adequately remove contaminated soil from the site. Based on the information available, ADEC has determined no further assessment or cleanup action is required. There is no longer a risk to human health or the environment, and this site will be designated as closed on the Department's database.

Although a Cleanup Complete determination has been granted, ADEC approval is required for off-site soil disposal in accordance with 18 AAC 75.325(i). It should be noted that movement or use of potentially contaminated soil in a manner that results in a violation of 18 AAC 70 water quality standards is unlawful.

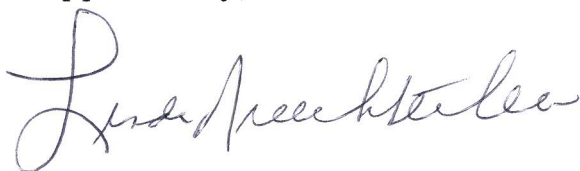
This determination is in accordance with 18 AAC 75.380(d) and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment.

**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.

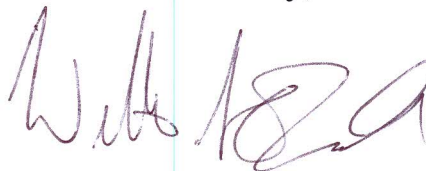
If you have questions about this closure decision, please contact the ADEC project manager, Bill O'Connell at (907) 269-3057

Approved By,



Linda Nuechterlein  
Environmental Manager

Recommended By,



William O'Connell  
Environmental Program Specialist