



THE STATE  
of **ALASKA**  
GOVERNOR SEAN PARNELL

Department of  
Environmental Conservation

DIVISION OF SPILL PREVENTION & RESPONSE  
Contaminated Sites Program

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File: 2245.38.011

October 9, 2013

Mr. John Holcomb  
P.O. Box 876329  
Wasilla, Alaska 99687

Re: Decision Document; Residence- Holcomb Property HHO UST  
Cleanup Complete Determination

Dear Mr. Holcomb;

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the site known as Residence- Holcomb Property home heating oil (HHO) underground storage tank (UST) located at 1430 Irwin Road 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 Residence- Holcomb Property HHO UST, 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:

Residence- Holcomb Property HHO UST  
Lot 2, Block 1, Timbered Acres Subdivision, Unit 1  
1430 Irwin Road  
Palmer, AK

Name and Mailing Address of Contact Party:

Mr. John Holcomb  
P.O. Box 876329  
Wasilla, Alaska 99687

ADEC Site Identifiers

File: 2245.38.011  
Hazard ID: 3927

Regulatory authority under which the site  
is being cleaned up:

18 AAC 75

## Background

Petroleum contamination was noted in soil during the removal of a home heating oil tank in 2002. Groundwater was not encountered during the excavation and is reportedly present at approximately 60 feet below ground surface in the on-site drinking water well. A sample collected from the well in 2002 did not contain detectable concentrations of contaminants.

## Contaminants of Concern

During the investigations at this site, soil samples were analyzed for diesel range organics (DRO), gasoline range organics (GRO), and benzene, toluene, ethylbenzene, and xylenes (BTEX). Based on these analyses and knowledge of the source area, 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, Migration to Groundwater Pathway for the Under 40 inch Zone.

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

## Site Characterization Activities

The heating oil tank was initially excavated by the property owner in 2002 and the excavated material was placed back into the excavation. A second excavation was then conducted in 2006 that removed petroleum impacted soil to a depth of approximately 19 feet below ground surface. Confirmation soil samples collected from the bottom and sides of the excavation did not contain contaminants above cleanup levels. A sample collected from the 200 cubic yards of stockpiled soil contained DRO at 350 mg/kg.

Stockpiled soil was mixed with fertilizer and spread at an onsite parking area. Composite soil samples collected from the spread soil in 2007 did not contain contaminants above cleanup levels.

## Cumulative Risk Calculation

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 1.

**Table 1 – Exposure Pathway Evaluation**

<b>Pathway</b>	<b>Result</b>	<b>Explanation</b>
Surface Soil Contact	De Minimis Exposure	Contaminants in surface soil are below direct contact cleanup levels
Sub-Surface Soil Contact	De Minimis Exposure	Contaminants in subsurface soil are below direct contact cleanup levels
Inhalation – Outdoor Air	De Minimis Exposure	Contaminant concentrations are below inhalation cleanup levels and the remaining contaminated soil is covered by clean fill
Inhalation – Indoor Air (vapor intrusion)	De Minimis Exposure	Contaminant concentrations are below inhalation cleanup levels and the remaining contaminated soil is covered by clean fill
Groundwater Ingestion	Pathway Incomplete	A sample from the drinking water well at the site did not contain detectable concentrations of contaminants
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	Ecological receptors are not present at this 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**

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.

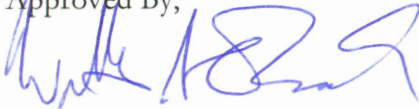
### **Appeal**

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 ADEC Project Manager Bill O'Connell at (907) 269-3057.

Approved By,



Bill O'Connell  
Environmental Program Manager