



THE STATE  
of **ALASKA**  
GOVERNOR SEAN PARNELL

**Department of Environmental  
Conservation**

Division of Spill Prevention and Response  
Contaminated Sites Program

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File: 141.26.019

February 26, 2013

Andrea Carlson  
Doyon Utilities  
P.O. Box 74040  
Fairbanks, AK 99707

Re: Decision Document, Doyon Utilities at Fort Greely Building 501, Corrective Action Complete Determination

Dear Ms. Carlson:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the Doyon Utilities at Fort Greely Building 501, Fort Greely, Alaska. Based on the information provided to date, the ADEC 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.

This decision is based on the administrative record for the site, which is located in the offices of the Alaska Department of Environmental Conservation (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 Corrective Action Complete Determination.

**Site Name and Location**

Doyon Utilities at Ft Greely Building 501  
north of Big Delta Avenue; west of 1<sup>st</sup> Street  
Fort Greely, Alaska

**DEC Site Identifiers**

File: 141.26.019  
Hazard ID: 26006

**Regulatory Authority for Determination**

18 AAC 75 and 18 AAC 78

**Underground Storage Tank Assessment and Closure**

In September 2011 a 5,000-gallon heating oil underground storage tank (ADEC UST Facility 3546, ADEC UST ID #4/Owner ID 430A) was removed at Building 501 at Fort Greely. Soil from the limits of the excavation was sampled for gasoline, diesel, and residual range organics (GRO, DRO and RRO), benzene,

toluene, ethylbenzene, and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs). To address data gaps from the UST removal in 2011, additional soil sampling was performed in August 2012.

Results were compared to the ADEC Method 2 Table B1 and B2 migration to groundwater cleanup levels. GRO, DRO, RRO, and BTEX results were all non-detect. Three PAH compounds were detected below their respective cleanup levels, as shown below:

	Result	ADEC Cleanup Level
Fluoranthene	0.00252 mg/kg (J)	1,400 mg/kg
Phenanthrene	0.00185 mg/kg (J)	3,000 mg/kg
Pyrene	0.00302 mg/kg (J)	1,000 mg/kg

Note: (J) = estimated concentration is above the limit of detection but below the limit of quantitation  
Soil cleanup levels are 18 AAC 75.341 Table B1 Method Two, migration to groundwater

### 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. 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.

Pathway	Result	Explanation
Surface Soil Contact	Pathway Incomplete	
Sub-Surface Soil Contact	De Minimis	PAH results are below the direct contact cleanup levels.
Inhalation – Outdoor Air	Pathway Incomplete	PAH
Inhalation – Indoor Air (vapor intrusion)	Pathway Incomplete	PAH
Groundwater Ingestion	Pathway Incomplete	PAH results are below the migration to groundwater cleanup levels. Groundwater at this location is greater than 180 feet deep.
Surface Water Ingestion	Pathway Incomplete	PAH results are below applicable cleanup levels and there are no surface water bodies located within ¼ mile of the site.
Wild Foods Ingestion	Pathway Incomplete	This site is located in a developed area of Fort Greely.
Exposure to Ecological Receptors	Pathway Incomplete	This site is located in a developed area of Fort Greely.

### 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 Corrective Action Complete determination has been

granted, ADEC approval is required for off-site soil disposal in accordance with 18 AAC 78.600(h). 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 78.276(f) 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 the ADEC project manager, Melody Debenham, at [melody.debenham@alaska.gov](mailto:melody.debenham@alaska.gov) or (907) 451-5175.

Approved By



Fred Freeman  
Environmental Manager

Recommended By



Melody Debenham  
Environmental Program Specialist

cc: Glen Shonkwiler, Space Missile Defense Command (e-mail only)  
Dan Miller, Ft. Greely Environmental (e-mail only)