

STATE OF ALASKA

SEAN PARNELL, GOVERNOR

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

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File: 2100.26.575
Return Receipt Requested
Article No: 7010 2780 0000 2089 6729

June 28, 2012

Mr. Mike Brodie
Chugach Electric Association
P.O. Box 196300
Anchorage, AK 99519

Re: Closure Decision Document; Chugach Electric Association Operations Facility,
Tank #8 Corrective Action Complete Determination

Dear Mr. Brodie:

The Alaska Department of Environmental Conservation (ADEC), Contaminated Sites Program, has completed a review of the environmental records associated with the Chugach Electric Association Operations Facility, Tank #8, 5601 Electron Drive diesel underground storage tank system site. 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 which is located in the offices of the Alaska Department of Environmental Conservation 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 this Corrective Action Complete Determination.

Introduction

Site Name and Location:

Chugach Electric Association Operations Facility, Tank #8
5601 Electron Drive
Anchorage, AK 99519
International Industrial Center Tract 2

Name and Mailing Address of Contact Party:

Mr. Mike Brodie
Chugach Electric Association
P.O. Box 196300
Anchorage, AK 99519

ADEC Site Identifiers

File#: 2100.26.575

Hazard ID: 25789

Regulatory authority under which the site is being cleaned up:

18 AAC 78

18 AAC 75

Background

A 1,000 gallon diesel tank and its associated piping were removed on October 3, 2011. The tank was installed in 1983 and was used fuel an emergency generator at the operations facility building until 2011. The DEC UST facility number for this site is 726. The property is used by Chugach Electric Association for the generation of electrical power for Anchorage. City water and sewer is used at this building. No drinking water wells are known to be in the immediate area.

Characterization Activities

On October 3, 2011 a 1,000 gallon regulated diesel tank and its associated piping were removed. All soil samples collected from the excavation and excavated soil below the most stringent (i.e., migration to groundwater) 18 AAC 75.341 cleanup levels. Groundwater in the area has been encountered about 12 feet below ground surface. No groundwater was encountered in the excavation. The only detectable contamination was up to 21.1 mg/kg DRO, 251 mg/kg RRO, and 1.26 mg/kg GRO in the excavation and stockpile samples. The stockpile was reused as backfill in the tank excavation.

Contaminants of Concern

During the investigation at this site, soil samples were analyzed for the following: residual range organics (RRO), diesel range organics (DRO); gasoline range organics (GRO); benzene, toluene, ethylbenzene, and xylenes (BTEX), and Polynuclear Aromatic Hydrocarbons (PAHs). Based on these analyses and knowledge of the source area, the following Contaminants of Concern (COCs) were identified:

- RRO
- DRO
- GRO
- Benzene

However, no COCs remain on site above ADEC's most stringent soil cleanup levels established in 18 AAC 75.341, Method Two, Tables B1 and B2, Migration to Groundwater (MTG) *Under 40 Inch Zone*.

Pathway Evaluation

Following investigation of 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 or Pathway Incomplete. A summary of this pathway evaluation is included in Table 1.

Table 1 - Exposure Tracking Model Results

Pathway	Result	Explanation
Surface Soil Contact	De-Minimis Exposure	All surface soils were below the most stringent cleanup levels. Therefore risk via this pathway is considered insignificant.
Sub-Surface Soil Contact	De-Minimis Exposure	All sub-surface soils were below the most stringent cleanup levels. Therefore risk via this pathway is considered insignificant.
Inhalation - Outdoor Air	De-Minimis Exposure	No volatile organic compounds were detected in the confirmation samples. Therefore risk via this pathway is considered insignificant.
Inhalation - Indoor Air (vapor intrusion)	De-Minimis Exposure	No volatile organic compounds were detected in the confirmation samples. Therefore risk via this pathway is considered insignificant.
Groundwater Ingestion	De-Minimis Exposure	All sub-surface soils were below the most stringent cleanup levels. Groundwater was not encountered in the excavation. Therefore risk via this pathway is considered insignificant.
Surface Water Ingestion	Pathway Incomplete	Surface water is not used as a drinking water source in this area.
Wild Foods Ingestion	Pathway Incomplete	This area is not used for harvesting wild foods.
Exposure to Ecological Receptors	Pathway Incomplete	This area does not have ecological receptors.

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.

ADEC Decision

The actions to date have served to adequately assess petroleum contaminated soil and groundwater at the site. Based on the information available, ADEC has determined no further assessment and/or cleanup action is required. There is no unacceptable risk to human health or the environment, and this site will be designated as Corrective Action Complete on the Department's database, and will include a description of the contamination remaining at the site.

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) and 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 closure 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.

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 decision document, please contact the ADEC Project Manager, Robert Weimer at (907) 269-7525.

Approved By,



Rich Sundet
Environmental Manager

Recommended By,



Robert Weimer
Environmental Program Specialist

Cc: Lucas Gamble, Restoration Science & Engineering, LLC