

STATE OF ALASKA

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DEPT. OF ENVIRONMENTAL CONSERVATION

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DIVISION OF SPILL PREVENTION AND RESPONSE CONTAMINATED SITES PROGRAM

File No: 100.38.228

Return Receipt Requested

Article No: 7009 2820 0001 7169 7023

January 6, 2011

Mr. Daniel Britton
Fairbanks Natural Gas, LLC
3408 International Way
Fairbanks, Alaska, 99701

Re: Decision Document; Fairbanks Natural Gas Metro Industrial Airpark
Cleanup Complete Determination

Dear Mr. Britton:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the Fairbanks Natural Gas Metro Industrial Park natural gas facility located on Lots 6 through 11 of Block 6, Metro Industrial Airpark in Fairbanks 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 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

Fairbanks Natural Gas, Metro Industrial Airpark
Lots 6 through 11 of Block 6
Fairbanks, Alaska

Name and Mailing Address of Contact Party:

Daniel Britton
Fairbanks Natural Gas, LLC
3408 International Way
Fairbanks, Alaska, 99701



ADEC Site Identifiers:

Hazard ID #25519

CS file # 100.38.228

Regulatory authority under which the site is being cleaned up:

18 AAC 75

Background

This facility consists of a natural gas storage and distribution system which supplies natural gas to the distribution infrastructure in Fairbanks. Petroleum hydrocarbon contaminated soil was identified in several areas of the facility during a 2005 Phase II investigation, which also identified two burn areas and a floor drain as potential sources of environmental contamination.

Contaminants of Concern

During the various investigations at this site, soil and groundwater samples were analyzed for one or more of the following: diesel range organics (DRO), residual range organics (RRO), gasoline range organics (GRO), volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX), metals, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and dioxins. Based on the results of these investigations, the following contaminants of concern were identified:

- DRO
- RRO

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>Site Cleanup Level (mg/kg)</u>
• DRO	250
• RRO	11,000

Site Characterization and Cleanup

Remedial activities were conducted at the site in August and September 2010 after additional characterization samples were collected to delineate the extent of hydrocarbon impacts. Cleanup activities were conducted at several discrete areas including the Hangar Area, Burn Pile Area, Burn Barrel Area, and Drum Storage Area.

At the Hangar Area, soil samples collected in 2005 and 2010 found DRO up to 29,700 mg/kg and RRO up to 60,700 mg/kg. Impacted soil was identified in three discrete areas around the hangar, likely resulting from the storage of used oil for use in the oil burner at the hangar or other unidentified releases. The impacted areas were excavated in 2010 to depths ranging from 1 foot bgs to approximately 3

feet bgs. Confirmation soil samples collected at each of the excavation areas did not contain contaminants above cleanup levels.

At the Burn pile Area, soil samples collected in 2005 contained DRO up to 14,000 mg/kg and RRO up to 80,000 mg/kg. Additional characterization was conducted in 2010 to evaluate the presence of PCBs and dioxins, which were not detected above ADEC cleanup levels. The impacted area was excavated in 2010 to depths ranging from 1 foot bgs to approximately 3.5 feet bgs. Confirmation soil samples collected from the excavation area did not contain contaminants above cleanup levels.

At the Burn Barrel Area, a surface soil sample collected in 2010 contained DRO at 278 mg/kg. Additional characterization was conducted in 2010 to evaluate the presence of PCBs and dioxins, which were not detected above ADEC cleanup levels. Confirmation soil samples collected in 2010, following the excavation of visibly stained surface soil, did not contain contaminants above cleanup levels.

At the Drum Storage Area, soil samples collected in 2005 and 2010 contained DRO up to 4,770 mg/kg and RRO up to 44,200 mg/kg. The impacted area was excavated in 2010 to a depth of 3.5 feet bgs, and confirmation soil samples did not contain contaminants above cleanup levels.

Four groundwater monitoring wells were installed and sampled in 2005. Contaminants were not detected in groundwater, located from 18-23 feet bgs. After soil sampling in 2010 indicated soil contamination did not extend to groundwater, the monitoring wells were decommissioned in accordance with ADEC guidance.

A floor drain, septic crib, and leach field were investigated and closed under the EPA Underground Injection Control Program. DRO was detected at 5,070 mg/kg in a sludge sample collected from the floor drain in 2005; however contaminants were not detected in samples collected during excavation of the septic crib and leach field. The floor drain was filled with concrete and any contaminated material that may remain is considered de minimis in extent and capped with concrete.

All contaminated soil that was excavated from the site was transported to OIT in North Pole for thermal treatment.

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

Pathway	Result	Explanation
Direct Contact with Surface Soil	De Minimis Exposure	Hydrocarbon contaminated soil has been excavated from the site and any remaining contamination is below cleanup levels
Direct Contact with Sub-Surface Soil	De Minimis Exposure	Hydrocarbon contaminated soil has been excavated from the site, and any remaining contamination is below direct contact cleanup levels
Inhalation-Outdoor Air	De Minimis Exposure	The remaining contamination has low volatility and is covered by clean fill, which will mitigate exposure via this pathway.
Inhalation-Indoor Air	Pathway Incomplete	Volatile contaminants capable of causing risk via this pathway are not present at the site.
Groundwater Ingestion	Pathway Incomplete	Groundwater (GW) was sampled and there were no detections of contaminants. GW is not utilized as a drinking water source in this area.
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.

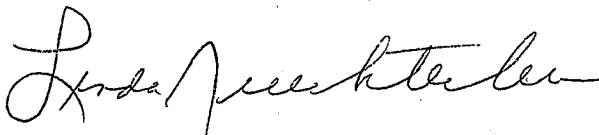
This determination is in accordance with 18 AAC 75.380(d) and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment.

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.

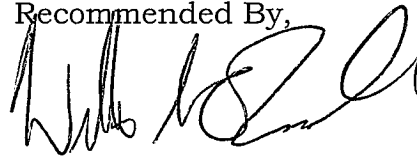
If you have questions about this closure decision, please contact ADEC Project Manager William O'Connell at (907) 269-3057.

Approved By,



Linda Nuechterlein
Environmental Manager

Recommended By,



William O'Connell
Environmental Program Specialist