

STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION

DIVISION OF SPILL PREVENTION AND RESPONSE CONTAMINATED SITES PROGRAM

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File: 2245.26.031
Return Receipt Requested
Article No: 7010 2780 0000 2089 6613

April 24, 2012

Brad Fisher
PO Box 520209
Big Lake, Alaska 99652

Re: Decision Document; Dale's Auto
Corrective Action Complete Determination

Dear Mr. Fisher:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with Dale's Auto. 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 no further remedial action will be required.

This decision is based on the administrative record for Dale's Auto 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 Corrective Action Complete determination.

Introduction

Site Name and Location:

1345 North Old Glenn Highway
Palmer, Alaska 99645
NW ¼, Section 2, Township 17N, Range 2E, Seward Meridian

Name and Mailing Address of Contact Party:

Brad Fisher
PO Box 520209
Big Lake, Alaska 99652

ADEC Site Identifiers

File: 2245.26.031
Hazard ID: 23132

Regulatory authority under which the site is being cleaned up:
18 AAC 75 and 18 AAC 78

Background

This subject property is located on at 1345 Old Glenn highway. The property is roughly two (2) acres in size and is currently vacant of any buildings. Dale's auto station, an automobile service station former occupied the facility from late 1970's until the early 1990s (per communication with Brad Fisher on April 12, 2012). Potable water was provided by an onsite drinking water well that was decommissioned when the building was removed in the early 1990s. The prior building was connected to an onsite septic system that was removed when the building was removed. No contamination was noted and no soil sampling was conducted at that time. Groundwater is found at approximately 35 to 40 feet below ground surface (bgs) and likely flows southwest. Soil samples have been analyzed for gasoline range organics (GRO), diesel range organics (DRO), and benzene, toluene, ethylbenzene, and xylenes (BTEX).

Site Characterization and Cleanup Actions

On May 5, 2008, a 2,000-gallon unleaded gasoline regulated underground storage tank (UST), 6,000-gallon gasoline regulated UST, and a 2,000 gallon diesel regulated UST and associated dispensers and piping were removed and decommissioned. The 2,000-gallon USTs were in operation from the 1976 till 1987, while the 6,000-gallon gasoline regulated UST was in operation from 1982 till 1987. The 2,000-gallon unleaded gasoline and diesel USTs were formerly located next to each other at the center of the property near a dispenser island, while the 6,000 gasoline UST was located on the northern portion of the property near Bohman Way Road. Based on photoionizing detector (PID) field screening results and visual observations, 10 soil samples were collected within the footprints of the removed USTs and dispensers, areas to be and were analyzed for GRO, DRO, and BTEX constituents. Benzene was detected at elevated levels (i.e. above 18 AAC 75.341 Table B1 or B2 migration to groundwater cleanup levels) at two locations of the 2,000-gallon unleaded gasoline footprint at roughly 10 feet below ground surface (bgs). In these samples, benzene was detected at a maximum level of 0.098 mg/kg and above its 0.025 mg/kg migration to groundwater cleanup level. No other contaminants of concern were detected in the 10 soil samples at levels that exceeded 18 AAC 75.341 Table B1 or B2 migration to groundwater cleanup levels.

In July and October 2009, ChemTrack conducted additional soil excavation activities within the footprint of the 2,000-gallon unleaded gasoline UST. Approximately three (3) cubic yards of potentially contaminated soil was excavated in the area where benzene was detected at a level of 0.098 mg/kg, containerized in super sacks and then eventually disposed of at Alaska Soil Recycling (ASR). Following the limited soil excavation, an additional seven soil samples were

collected from the base and sidewalls of the newly excavated area that previously contained elevated levels of benzene within the 2,000-gallon unleaded gasoline UST footprint. These samples were analyzed for GRO, and BTEX according to DEC approved methods; no contaminants of concern were detected in these samples at levels that exceed 18 AAC 75.341 Table B1 or B2 migration to groundwater cleanup levels.

Contaminants of Concern

During the investigations at this site, soil and groundwater samples were analyzed for gasoline range organics (GRO), diesel range organics (DRO), and benzene, toluene, ethylbenzene, and xylenes (BTEX). Based on these analyses and knowledge of the source area, the following Contaminants of Concern were identified:

- Benzene

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>
• Benzene	0.025

The default groundwater cleanup levels for this site are established in 18 AAC 75.345 Table C Groundwater Cleanup Levels.

<u>Contaminant</u>	<u>Site Cleanup Level (mg/L)</u>
• Benzene	0.005

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, and Pathway Incomplete. A summary of this pathway evaluation is included in Table 2.

Table 2 – Exposure Pathway Evaluation

Pathway	Result	Explanation
Surface Soil Contact	Pathway Incomplete	Contaminants of concern were not detected in surface soil.
Sub-Surface Soil Contact	De Minimis Exposure	Contaminants of concern (i.e. benzene) were not detected above 18 AAC 75.341 Ingestion or Direct Contact Action levels.

Inhalation – Outdoor Air	De Minimis Exposure	Contaminants of concern (i.e. benzene) were not detected above 18 AAC 75.341 Table B1 or B2 outdoor inhalation levels.
Inhalation – Indoor Air (vapor intrusion)	Pathway Incomplete	The soil left in place is not considered contaminated in accordance with 18 AAC 75.341 regulatory criteria; therefore, the vapor intrusion pathway is not complete.
Groundwater Ingestion	De minimis	Contaminants of concern (i.e. benzene) were not detected above 18 AAC 75.341 migration to groundwater cleanup levels.
Surface Water Ingestion	Pathway Incomplete	It is unlikely that surface water is impacted because groundwater is not believed to be impacted. The Matanuska River is located roughly ¼ mile west of the property.
Wild Foods Ingestion	Pathway Incomplete	This site is not used or reasonable could be used for hunting, fishing, or harvesting of wild foods.
Exposure to Ecological Receptors	Pathway Incomplete	No terrestrial or aquatic exposure routes are present.

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

Benzene contaminated soil was documented within the footprint of a 2,000-gallon unleaded gasoline UST that was removed in 2008. This contaminated soil was subsequently removed in 2009 and thermally remediated at ASR. Confirmatory soil sample results from the base and sidewalls of this excavation documented that no contaminants of concern were left in place at levels that exceed 18 AAC 74.341 Table B1 or B2 migration to groundwater cleanup levels. ADEC has determined there is no unacceptable risk to human health or the environment since current site exposure pathways that are complete have been determined to be de minimis. Therefore, this site will be issued a Corrective Action Complete.

The ADEC Contaminated Sites Database will be updated to reflect the change in site status as detailed above. Movement or use of contaminated material in a manner that results in a violation of 18 AAC 70 water quality standards is prohibited.

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 contact the ADEC project manager, Todd Blessing at (907) 269-7699.

Approved By,

Recommended By,



Rich Sundet
Environmental Program Manager

Todd Blessing
Environmental Program Specialist

Cc: Chuck Ronan, ChemTrack Alaska, Inc.