

# STATE OF ALASKA

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

**SEAN PARNELL, GOVERNOR**

555 Cordova Street  
Anchorage, AK 99501  
PHONE: (907) 269-8685  
FAX: (907) 269-7649  
www.dec.state.ak.us

File: 2258.26.005

December 9, 2009

Mr. Brad Fisher  
Fisher's Fuel  
P.O. Box 520209  
Big Lake, Alaska 99652

Re: Decision Document; Sunshine One Stop Corrective Action Complete Determination

Dear Mr. Brad Fisher:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the underground storage tank system removed on April 7, 1998 at the Sunshine One Stop which was located at Mile 98.8 Parks Highway, Talkeetna. Based on the information provided to date, the ADEC has determined that the contaminant concentrations remaining on site associated with the underground storage tank system removed at the site on April 7, 1998 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 Sunshine One Stop, which is located in the offices of the Alaska Department of Environmental Conservation (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:

Sunshine One Stop  
Mile 98.8 Parks Highway  
Talkeetna, Alaska 99676

Lot 2, Mt. McKinley View Plaza Subdivision located within Section 29, Township 24 North,  
Range 4 West, Seward Meridian

Name and Mailing Address of Contact Party:

Mr. Brad Fisher  
Fisher's Fuel  
P.O. Box 520209  
Big Lake, Alaska 99652

Database Record Key and File Number:

ADEC Reckey: 1998220009801  
File: 2258.26.005  
Hazard ID: 24734

Regulatory authority under which the site is being cleaned up:

18 AAC 78

Petroleum impacted soil was encountered during the removal of three 12,000-gallon underground storage tanks (UST) and associated piping in 1998. Soil samples collected at this site have been tested for: residual range organics (RRO); diesel range organics (DRO); gasoline range organics (GRO); and benzene, toluene, ethylbenzene and xylene (BTEX). Groundwater samples collected at this site have been tested for: diesel range organics (DRO); gasoline range organics (GRO); and benzene, toluene, ethylbenzene and xylene (BTEX).

**Cleanup Activities**

During the tank removal in 1998, approximately 2,300 cubic yards of contaminated soil were excavated. Confirmation soil samples taken in the excavation were non-detect for GRO and RRO; with DRO sample results up to 33 mg/kg; and benzene sample results up to 0.057 mg/kg. The benzene soil contamination identified in 1998 in the excavation was at 15 feet below ground surface below the middle tank and at 40 feet below ground surface in the southeast corner of the tank excavation. New replacement underground storage tanks were put in the same excavation, and as of the date of this letter these tanks are still in use.

Stockpile sample results from 1998 had up to 1,200 mg/kg DRO, 120 mg/kg GRO, and <0.23 mg/kg benzene. The on-site drinking water well was sampled and found to be non-detect for GRO and DRO, and up to 0.000683 mg/l benzene. A monitoring well was installed at the site and the groundwater samples collected from it were non-detect for DRO, GRO, and BTEX.

On October 31, 2001 ADEC issued a Conditional Closure letter for this site. The remaining condition on the site was the proper treatment of the 2,300 cubic yards of contaminated soil that was currently stored at the site.

In 2009 at an off-site location the contaminated soil stockpile was run through a crusher, and 10 laboratory samples were collected based on field screening readings. The soil was analyzed for: BTEX, DRO, and GRO. All stockpile analytical samples were below the most stringent cleanup levels. These treated soils are to be reused at the off-site location for a road.

### Contaminants of Concern

During the investigations at this site, soil samples were analyzed for GRO; DRO; RRO and BTEX. Based on these analyses and knowledge of the source area, the following Contaminant of Concern was identified:

- Gasoline Range Organics (GRO)
- Diesel Range Organics (DRO)
- Benzene

### Cleanup Levels

The default soil cleanup levels for this site are established in 18 AAC 75.341, Method Two, Tables B1 and B2, Migration to Groundwater.

<u>Contaminant</u>	<u>Site Cleanup Level (mg/kg)</u>
GRO	300
DRO	250
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>
GRO	2.2
DRO	1.5
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, 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	Pathway Incomplete	The soil stockpile has been transported to an off-site location and treated, there is no surface soil contact.
Sub-Surface Soil Contact	De-minimis exposure	Contamination remains in the subsurface at 15 feet and 40 feet below ground surface, but is De-minimis in quantity and concentration.
Inhalation – Outdoor Air	De-minimis exposure	Contamination remains in the subsurface, but is De-minimis in quantity and concentration.

Inhalation – Indoor Air (vapor intrusion)	De-minimis exposure	Contamination remains in the subsurface, but is De-minimis in quantity and concentration.
Groundwater Ingestion	De-minimis exposure	Groundwater contamination is below groundwater cleanup levels.
Surface Water Ingestion	Pathway Incomplete	There is no surface water located within ¼ mile of the site
Wild Foods Ingestion	Pathway Incomplete	The soil stockpile has been transported off-site and treated. There is no surface contamination remaining above MTG levels.
Exposure to Ecological Receptors	Pathway Incomplete	The soil stockpile has been transported off-site and treated. There is no surface contamination remaining above MTG levels.

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 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 contact the ADEC project manager, Robert Weimer at (907) 269-7525.

Approved By,



Rich Sundet  
Environmental Manager

Recommended By



Robert Weimer  
Environmental Engineering Associate