

STATE OF ALASKA

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

Reference: Julian M. Residuary, BPT
1913.13.021
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March 1, 2004

Mr. Bill Heubner
National Park Service
2525 Gambell Street
Anchorage, AK 99503

Re: No Further Remedial Action Decision
Bartlett Cove Voluntary Cleanup Program Sites

Site Description and Background

Glacier Bay National Park and Preserve facilities are located at Bartlett Cove, 10 miles northwest of Gustavus. The Bartlett Cove facilities include a lodge, guest cabins, administrative facilities, a tour boat dock, employee housing, a fuel storage depot, and maintenance facilities.

The Bartlett Cove Voluntary Cleanup Program Sites include the administrative building (GBA-12), electrical shop (GBA-10), residential duplex (GBQ-9), and two single family residences (GBQ-3 and GBQ-5). These sites are within a mile radius of each other.

Several environmental assessments have been conducted at the subject sites. Shannon and Wilson conducted a site characterization and remedial investigation study in September 1996. RLN Environmental conducted an underground storage tank (UST) closure assessment in July 1998. Shannon and Wilson conducted an additional site characterization in May 1999, estimating contaminated soil volumes at each site. The soils were also analyzed for nutrients and bacteria to determine natural attenuation potential. Shannon and Wilson recommended that excavation and natural attenuation would be appropriate cleanup methods for all sites.

The sites were accepted into the Department of Environmental Conservation's (DEC) Voluntary Cleanup Program on May 8, 2000.

Soil Cleanup Levels

<u>Contaminant</u>	<u>Cleanup Level (mg/kg)</u>
Diesel Range Organics (DRO)	100



Toluene	4.8
Ethylbenzene	5
Xylenes	69

Groundwater Cleanup Levels

Contaminant	Cleanup Level (mg/kg)
DRO	1.5
Benzene	0.005
Toluene	1
Ethylbenzene	0.7
Xylenes	10

Site Investigation and Cleanup Summary

Administrative Building (GBA-12)

The GBA-12 site is located within the NPS headquarters complex. A 3,000-gallon heating fuel UST buried about 2 feet below ground surface was located 40 feet northeast of the administration building.

RLN Environmental removed the UST and associated fuel supply lines in 1998. Site characterization in the fall of 1998 revealed DRO concentrations as high as 10,800 mg/kg. One monitoring well (B4MW) was installed by Shannon and Wilson in October 1998. DRO was detected at 35.3 mg/kg, well above the 1.5 mg/kg cleanup level.

Platt Environmental re-excavated the site in the fall of 2000. No additional contaminated soil was encountered. DRO was detected in B4MW above the cleanup level but an order of magnitude less than that detected in 1998. The February 28, 2001 Platt Environmental report concluded that no soil contamination was present but that groundwater was still impaired. Continued groundwater monitoring was recommended.

A new well was installed downgradient of B4MW in the summer of 2001. DRO cleanup levels were slightly exceeded in both wells. Additional monitoring occurred in November 2001, February 2002, June 2002, October 2002, and February 2003. All contaminants were below cleanup levels by February 2003.

Residence (GBQ-5)

The GBQ-5 site is located approximately 500 yards west of the NPS headquarters. The 1,000-gallon heating fuel UST buried 2 feet below ground surface was located approximately 20 feet to the southwest of the home.

The tank was removed in 1998 by RLN Environmental. Platt Environmental re-excavated the site in November 2000. Approximately 28 cubic yards of contaminated soil were taken to the

Bartlett Cove long-term storage cell.¹ Groundwater was not encountered and no monitoring wells were installed.

Electrical Shop (GBA-10)

The GBA-10 site is located approximately 480 yards west of the NPS administration building. A 3,000-gallon heating fuel UST buried 2 feet below ground surface was located just to the west of the electrical shop.

RLN Environmental removed the tank and associated fuel supply lines in the spring of 1998. Subsequent site characterization in the fall of 1998 identified DRO concentrations as high as 12,000 mg/kg. One groundwater monitoring well was installed. No contaminants were detected above the cleanup levels.

Platt Environmental installed two additional wells in the fall of 2000 but did not re-excavate the site. No contaminants were detected above groundwater cleanup levels in either the 2000 sampling event or July 2001 sampling by NPS staff.

Residence (GBQ-3)

The GBQ-3 site is located approximately 700 yards west of the NPS headquarters. The 1,000-gallon heating fuel UST was located 17 feet to the north of the residence.

RLN Environmental removed the UST in the spring of 1998. Subsequent site characterization in the fall of 1998 identified DRO concentrations as high as 10,500 mg/kg beneath the former fill pipe.

Platt Environmental removed 112 cubic yards of contaminated soil in November 2000. The soil was taken to the Bartlett Cove long-term storage cell. Three groundwater monitoring wells were installed at the GBQ-3 site. DRO was elevated above cleanup levels in two of the wells.

In July 2001 NPS staff sampled the three wells. DRO was detected in MW-3 at 30 mg/L, well above the cleanup level of 1.5 mg/L.

Hart Crowser sampled the wells in February 2002, June 2002, October 2002, and February 2003. In February 2003, DRO was still elevated well above the cleanup level in MW-3 and slightly above the cleanup level in MW-1.

Residential Duplex (GBQ-9)

The GBQ-9 site is located approximately 600 yards west of the NPS headquarters. A 1,000-gallon heating fuel UST buried 1.5 feet below ground surface was located approximately 20 feet to the south of the duplex.

¹ The soil in the long-term storage cell was incorporated into asphalt and used for road paving in 2000.

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RLN Environmental removed the UST in 1998. Platt Environmental re-excavated the site in November 2000. No soil contamination was encountered and the site was backfilled. Platt Environmental concluded that hydrocarbons left in place since 1998 had naturally attenuated.

Determination

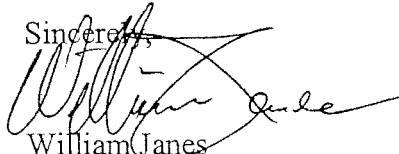
The Bartlett Cove Voluntary Cleanup Program sites have met the requirements specified in 18 Alaska Administrative Code (AAC) 75 Article 3 - Discharge, Reporting, Cleanup, and Disposal of Oil and Other Hazardous Substances. Based on the information provided by your consultants regarding the accessibility of the remaining contaminated material and groundwater use, DEC agrees that no further action is required.

The GBA-12, GBQ-5, GBQ-9, and GBA-10 sites will be noted as closed on the Contaminated Sites Database. The GBQ-3 site will remain open on the database until such time that DRO concentrations have been documented to be below cleanup levels. However, active monitoring at this site may be discontinued at the discretion of the Park Service. DEC believes the groundwater contaminant plume is stable at this time and does not pose a risk to human health. All Bartlett Cove structures are connected to the NPS's public drinking water system. The source water for this system is an upgradient stream.

In accordance with 18 AAC 75.380(d)(1), additional investigation and cleanup may be required if new information is discovered which leads DEC to make a determination that the cleanup described in this decision is not protective of human health, safety, and welfare 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 of the permit decision. 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 of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have questions feel free to give me a call in Juneau at 465-5208.

Sincerely,

William Janes
Project Manager

cc: Mark Foster – NPS Bartlett Cove