THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Environmental Conservation

Division of Spill Prevention and Response
Contaminated Sites Program

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Fairbanks, Alaska 99709-3643
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File: 102.38.174

October 24, 2014

Bob Bliss
GSA Public Building Service
Northwest/Arctic Region
400 15th Street SW
Auburn, Washington 98001

Re: Decision Document – GSA Federal Bldg. Motor Pool
Cleanup Complete Determination

Dear Mr. Bliss:

The Alaska Department of Environmental Conservation (DEC) has reviewed the environmental records for the General Services Administration (GSA) Federal Building Motor Pool site located at 101 12th Avenue, Fairbanks, Alaska. Based on the information provided to date, the DEC has determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment. No further remedial action is required.

Site Name and Location
GSA Federal Bldg. Motor Pool
101 12th Avenue
Fairbanks, Alaska 99701

ADEC Site Identifiers
File No: 102.38.174
Hazard ID: 26035

Regulatory Authority for Determination
18 AAC 75

Site Background
The GSA operates the Federal Building complex located at 101 12th Avenue. The main building includes the Federal Courthouse and other Federal offices. The complex also has a Maintenance Building Annex located in the southwestern portion of the property (see attached site location figure). In March of 2013 DEC was notified of a release of 1,500 gallons of propylene glycol from the floor slab loop at the Maintenance Building Annex (formerly identified as the Motor Pool).

This site is also listed on DEC's contaminated sites database for a 6,000-gallon gasoline release from a 10,000-gallon underground storage tank in 1997. Cleanup activities resulted in a Corrective Action Complete determination from DEC in 2012 for the gasoline release. Subsurface and groundwater data from the previous investigations were used to develop the release investigation work plan for the glycol spill.

Contaminants of Concern and Cleanup Levels

The contaminants of concern associated with this release are ethylene glycol and propylene glycol. Ethylene glycol cleanup levels are found in 18 AAC 75.341 Table B1 Method Two (migration to groundwater) for soil and 18 AAC 75.345 Table C for groundwater. DEC calculated soil and groundwater cleanup levels for propylene glycol using the equations set out in the department's *Cleanup Levels Guidance.*

Table 1 – Cleanup Levels

	Soil	Groundwater
Ethylene Glycol	190 mg/kg	73 mg/L
Propylene Glycol	828 mg/kg	312 mg/L

Characterization Activities

To identify the vertical and lateral extent of glycol contamination, 7 soil borings were advanced by direct push with a GeoProbe. Four borings (BH1 – BH4) were installed inside the Maintenance Building Annex in September 2013. Three additional borings (BH5 – BH7) were installed on the north and west sides of the building, the area with the greatest potential for down gradient migration, in July 2014. Soil was field screened using a Glycol CHEMets Kit, and soil samples were collected based on field screening results.

Table 2 – Soil Sample Locations and Results

Boring	Location	Depth (ft)	Ethylene Glycol	Propylene Glycol
BH1	Inside NW corner of Annex	13.5	ND	ND
BH2	Inside SE corner of Annex	17	85 mg/kg	85 mg/kg
BH3	Inside SW corner of Annex	3	ND	ND
BH4	Inside NE corner of Annex	6	**340 mg/kg**	ND
BH5	West side of Annex	6	ND	ND
BH6	North side of Annex	16	ND	ND
BH7	Northeast site of Annex	4.5	ND	ND

Bold – Result above cleanup level

ND – Not detected above the laboratory reporting limit

Groundwater samples were collected from Borings BH2 – BH7 and analyzed for ethylene and propylene glycol. All results were non-detect. Boring BH1 could not be advanced to groundwater, so no sample was collected.

Exposure Pathway Evaluation

Following investigation and cleanup at the site, exposure to the remaining contaminants was evaluated using ADEC's Exposure Tracking Motel (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 3.

Table 3 – Exposure Pathway Evaluation

Pathway	Result	Explanation
Surface Soil Contact	De-Minimis Exposure	Soil boring results indicate a small volume of soil with ethylene and propylene glycol contamination below the Maintenance Building Annex. Results for ethylene glycol are below the direct contact cleanup level of 106,000 mg/kg. Results for propylene glycol are below the migration to groundwater cleanup level.
Sub-Surface Soil Contact	De-Minimis Exposure	Soil boring results indicate a small volume of soil with ethylene and propylene glycol below the Maintenance Building Annex. Results for ethylene glycol are below the direct contact cleanup level of 106,000 mg/kg. Results for propylene glycol are below the migration to groundwater cleanup level.
Inhalation – Outdoor Air	Pathway Incomplete	Ethylene and propylene glycol are not volatile compounds.
Inhalation – Indoor Air (vapor intrusion)	Pathway Incomplete	Ethylene and propylene glycol are not volatile compounds.
Groundwater Ingestion	Pathway Incomplete	Groundwater results for ethylene and propylene glycol are non-detect.
Surface Water Ingestion	Pathway Incomplete	Soil boring results show a small area of soil impacts below the Maintenance Building Annex, preventing migration to surface water.
Wild and Farmed Foods Ingestion	Pathway Incomplete	Soil boring results show a small area of soil impacts below the Maintenance Building Annex.
Exposure to Ecological Receptors	Pathway Incomplete	Soil boring results indicate only a small volume of soil impacted below the Maintenance Building Annex.

Notes to Table 2: "De-Minimis Exposure" means that in DEC's judgment receptors are unlikely to be affected by the minimal volume or concentration of remaining contamination. "Pathway Incomplete" means that in DEC'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

It is inferred from soil boring sample data that contamination is isolated to a small area underneath the concrete floor of the Maintenance Building Annex. Soil concentrations are below direct contact cleanup levels, and groundwater has not been affected. This site will receive a "Closed" designation on the Contaminated Sites Database, subject to the following standard conditions.

Standard Conditions

1. Any proposal to transport soil or groundwater off-site requires DEC approval in accordance with 18 AAC 75.325. A "site" [as defined by 18 AAC 75.990(115)] means an area that is contaminated, including areas contaminated by the migration of hazardous substances from a source area, regardless of property ownership.
2. 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 75.380 and does not preclude DEC 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

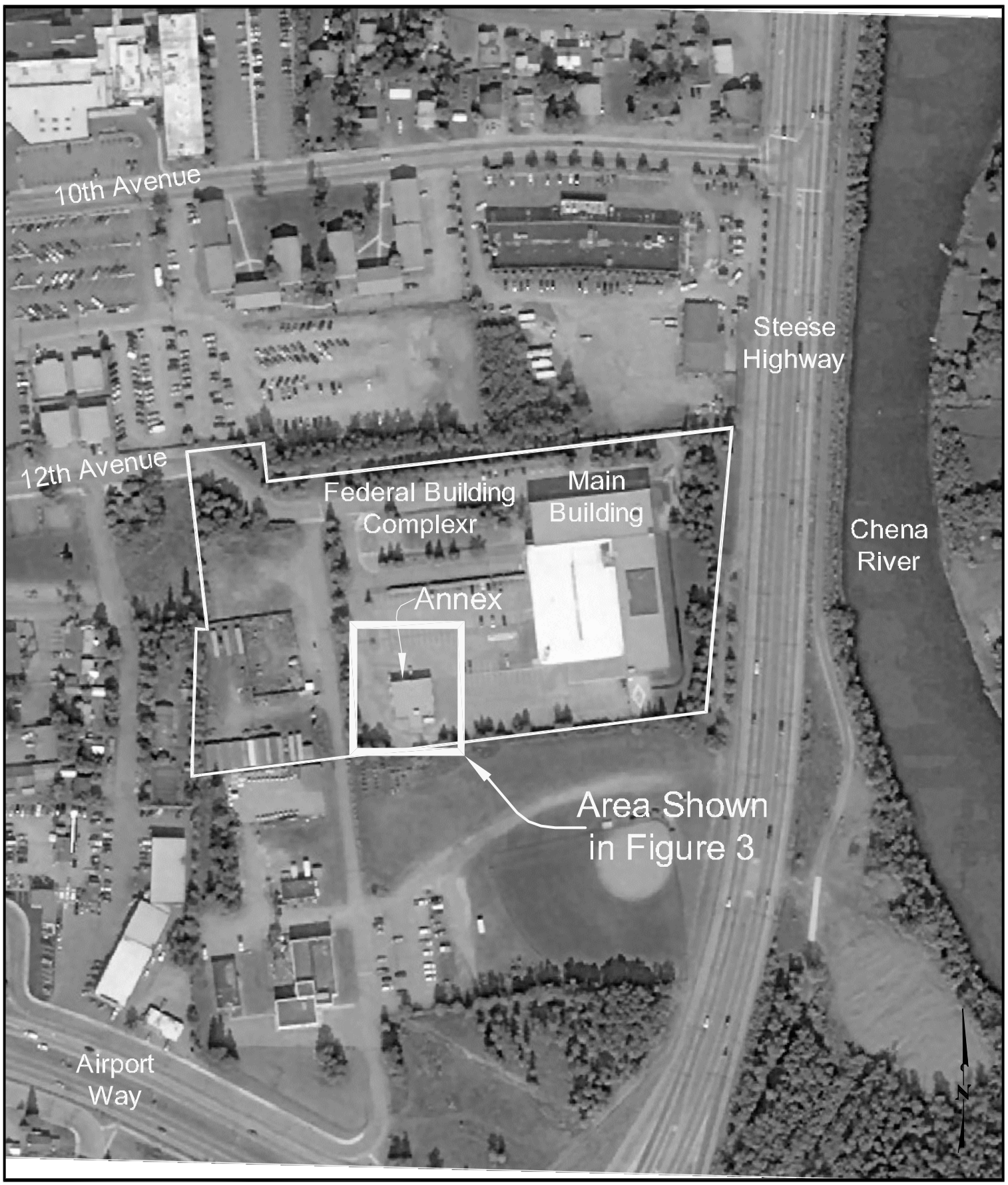
Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Division Director, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99811-1800, 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 99811-1800, 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 feel free to contact me at melody.debenham@alaska.gov or (907) 451-5175.

Sincerely,

Melody Debenham
Environmental Program Specialist

Enclosure: Fairbanks Federal Building Annex Site Location



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Vicinity Map
Fairbanks Federal Building
Fairbanks, Alaska

SCALE: 1"= 200'	FIGURE: 2
DESIGN: PB	
DRAWN: CMR	
PROJECT NO: 13-2105	
DWG: 132105b(02)	
DATE: 04/26/2013	