



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

Department of
Environmental Conservation

DIVISION OF SPILL PREVENTION & RESPONSE
Contaminated Sites Program

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File No: 2100.26.576

August 26, 2014

Mark Corsentino
Anchorage Water and Wastewater Utility (AWWU)
P.O. Box 196626
Anchorage, AK 99519

Re: Decision Document: MOA – AWWU Pump Station #20
Corrective Action Complete Determination

Dear Mr. and Ms. Hudson;

The Alaska Department of Environmental Conservation (ADEC) has reviewed the environmental records for MOA – AWWU Pump Station #20 site, which is located at the intersection of Silver Birch Drive and Sandy Beach Drive, in Anchorage. This decision letter memorializes the site history, cleanup actions, and standard conditions for long-term site management. No further remedial action is required.

Site Name and Location:

MOA – AWWU Pump Station #20
Intersection of Silver Birch Dr. and
Sandy Beach Dr.
Anchorage, Alaska

Name and Mailing Address of Contact Party:

Mark Corsentino
Anchorage Water and Wastewater Utility
P.O. Box 196626
Anchorage, AK 99519

DEC Site Identifiers:

File No: 2100.26.576
Hazard ID: 25959

Regulatory Authority for Determination:

18 AAC 75 and 18 AAC 78

Site Description, Background, and Cleanup Activities

A 600-gallon fiberglass underground storage tank (UST), utilized for the storage of diesel fuel, was removed from the ground at this site on August 1, 2012 without ADEC notification. Following the removal activities, the UST was hauled offsite for disposal and the excavation was backfilled.

On August 30, 2012, Shannon & Wilson Inc. (S&W) performed a closure assessment for the formerly removed UST. During the closure assessment, soils were excavated, field screened, and temporarily stockpiled on plastic sheeting. A total of 8 confirmation soil samples (6 from the excavation and 2 from stockpiled material), were submitted for laboratory analysis. The

confirmation samples were analyzed for gasoline range organics (GRO), diesel range organics (DRO), and benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX). DRO was present in four of the soil samples; however, at concentrations below the ADEC migration to groundwater (MTG) cleanup levels.

Contaminants of Concern and Cleanup Levels

Concentrations of DRO were detected in soil below the approved Method 2 MTG level for the under 40-inch precipitation zone, established in 18 AAC 75.341(d), Table B2.

Table 1 – Approved Cleanup Levels

Contaminant	Soil – Ingestion (mg/kg)	Soil – Inhalation (mg/kg)	Soil – MTG (mg/kg)
DRO	10,250	12,500	250

mg/kg = milligrams per kilogram

Cumulative Risk Evaluation

Pursuant to 18 AAC 78.600(d), when detectable contamination remains on-site following a cleanup, a cumulative risk determination must be made that the risk from hazardous substances does not exceed a cumulative carcinogenic risk standard of 1 in 100,000 across all exposure pathways and does not exceed a cumulative noncarcinogenic risk standard at a hazard index of one across all exposure pathways.

Based on a review of the environmental record, ADEC has determined that residual contaminant concentrations do not pose a cumulative human health risk.

Exposure 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 2.

Table 2 – Exposure Pathway Evaluation

Pathway	Result	Explanation
Surface Soil Contact	Pathway Incomplete	Contamination is not present in surface soil (0 to 2 feet below ground surface).
Sub-Surface Soil Contact	De-Minimis Exposure	Contamination remains in the sub-surface, but is below MTG cleanup levels.
Inhalation – Outdoor Air	Pathway Incomplete	Volatile compounds were not detected in any of the confirmation soil samples.
Inhalation – Indoor Air (vapor intrusion)	Pathway Incomplete	Volatile compounds were not detected in any of the confirmation soil samples.
Groundwater Ingestion	Pathway Incomplete	Groundwater contamination is not present.
Surface Water Ingestion	Pathway Incomplete	Surface water contamination is not present.

Wild and Farmed Foods Ingestion	Pathway Incomplete	Site is not in an area that would be reasonably used for foraging activities.
Exposure to Ecological Receptors	Pathway Incomplete	Site is in an area that would not affect aquatic or terrestrial life.

Notes to Table 2: "De-Minimis Exposure" means that in ADEC's judgment receptors are unlikely to be affected by the minimal volume or concentration 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

Remaining petroleum contamination in soil is below MTG cleanup levels. 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 ADEC approval in accordance with 18 AAC 78.600(h). 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 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 feel free to contact me at (907) 269-7691.

Sincerely,



Joshua Barsis
Environmental Program Specialist