



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

**Department of Environmental
Conservation**

DIVISION OF SPILL PREVENTION AND RESPONSE
Contaminated Sites Program

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File No: 2101.38.065

December 10, 2014

Donna Baumler
AFCEC/OLAJ
6346 Arctic Warrior Drive
JBER, AK 99506-3221

Re: Cleanup Complete Determination for JBER-Ft. Rich AT032 Airborne Training Facility FTR255

Dear Ms. Baumler;

The Alaska Department of Environmental Conservation (ADEC) has reviewed the environmental records for the referenced site. This decision document memorializes the site history, cleanup actions, cleanup complete determination, and standard conditions for long-term site management for CS DB Hazard ID 25902 and file number 2101.38.065.

Site Name and Location

JBER-Ft. Rich AT032 Airborne Training Facility FTR255
located within JBER-R on Thomas Road,
near the intersection with Otter Lake Road
JBER, Alaska 99505

Regulatory Authority for Determination: 18 AAC 75

Site Description and Background

The site is used as a jump training facility for paratroopers, with eight large storage buildings and eight covered training structures.

Contaminants of Concern

Diesel Range Organics (DRO)

Cleanup Levels

The cleanup level for soils at AT032 containing DRO contamination is 10,250 mg/kg in the Under 40-inch Zone based on the ingestion pathway within the 0 to 15' interval below ground surface (bgs).

Based on the analytical data for soil samples collected, groundwater samples collected, modeling using the Hydrocarbon Risk Calculator (HRC), residual DRO in soil at the site does not pose a migration to groundwater concern.

Characterization and Cleanup Activities

In 2009, the United States Army Engineer District conducted a geotechnical investigation prior to construction of the ATF. A fuel odor was detected and confirmed by photoionization detector readings at one of 18 soil borings drilled at the site, which prompted subsequent investigations.

Later in 2009, nine soil borings were advanced in the area of suspected soil contamination. Soil samples were collected and were submitted for laboratory analysis of diesel-range organics (DRO) (by Method AK102) and residual-range organics (RRO) (by Method AK103). The maximum DRO concentration detected was 5,890 milligrams per kilogram (mg/kg).

In 2010, excavation activities were conducted to remove DRO-contaminated soil. A total of 545 tons of DRO-contaminated soil was excavated and thermally treated. Confirmation soil samples from the bottom of the excavation at two locations contained DRO exceeding the Method Two migration to groundwater cleanup level (10.5' bgs 1,270 mg/kg and 14' bgs 3,790 mg/kg).

- In 2012, five soil borings were drilled at AT032 to approximately 25 feet below ground surface (bgs). DRO was detected within one of the lateral extent borings above the ADEC Method Two migration to groundwater cleanup level (432 mg/kg).

Groundwater was not encountered during investigation or excavation activities at AT032, and no groundwater monitoring wells have been constructed onsite. Based on information from nearby TU102 – Building 987 underground storage tank / aboveground storage tank (UST/AST) where the depth to groundwater is estimated to be approximately 120 feet bgs, it is unlikely that groundwater has been impacted.

Cumulative Risk Evaluation

The HRC was used to evaluate risk from petroleum contamination at AT032. The HRC is designed for sites with petroleum contamination—specifically the petroleum fractions, BTEX, PAHs, and other compounds dissolved in petroleum—with the intention and purpose of assessing human health risk from this type of contamination.

The estimated rounded cumulative cancer risk at AT032 for the current industrial and hypothetical residential exposure scenarios, across all exposure pathways, (3×10^{-7} and 5×10^{-7} respectively) is below the regulatory risk standard of 1×10^{-5} for petroleum hydrocarbons.

The estimated cumulative noncancer HI at AT032 for the current industrial and hypothetical residential exposure scenarios, across all exposure pathways, (0.003 and 0.004 respectively) is below the regulatory risk standard of 1. AT032 meets the ADEC risk criteria [18 AAC 75.325(g)] for petroleum hydrocarbons. The risk posed by the DRO aromatic and aliphatic surrogate fractions meets the risk standard for each exposure pathway, assuming a residential land use scenario.

An ecoscoping form was completed for AT032 and no observed surface soil staining, no impacted vegetation, no surface water or sediment runoff from the site. The ecoscoping form indicates that a more in-depth risk evaluation is not needed and that the AT032 site conditions are protective of the environment.

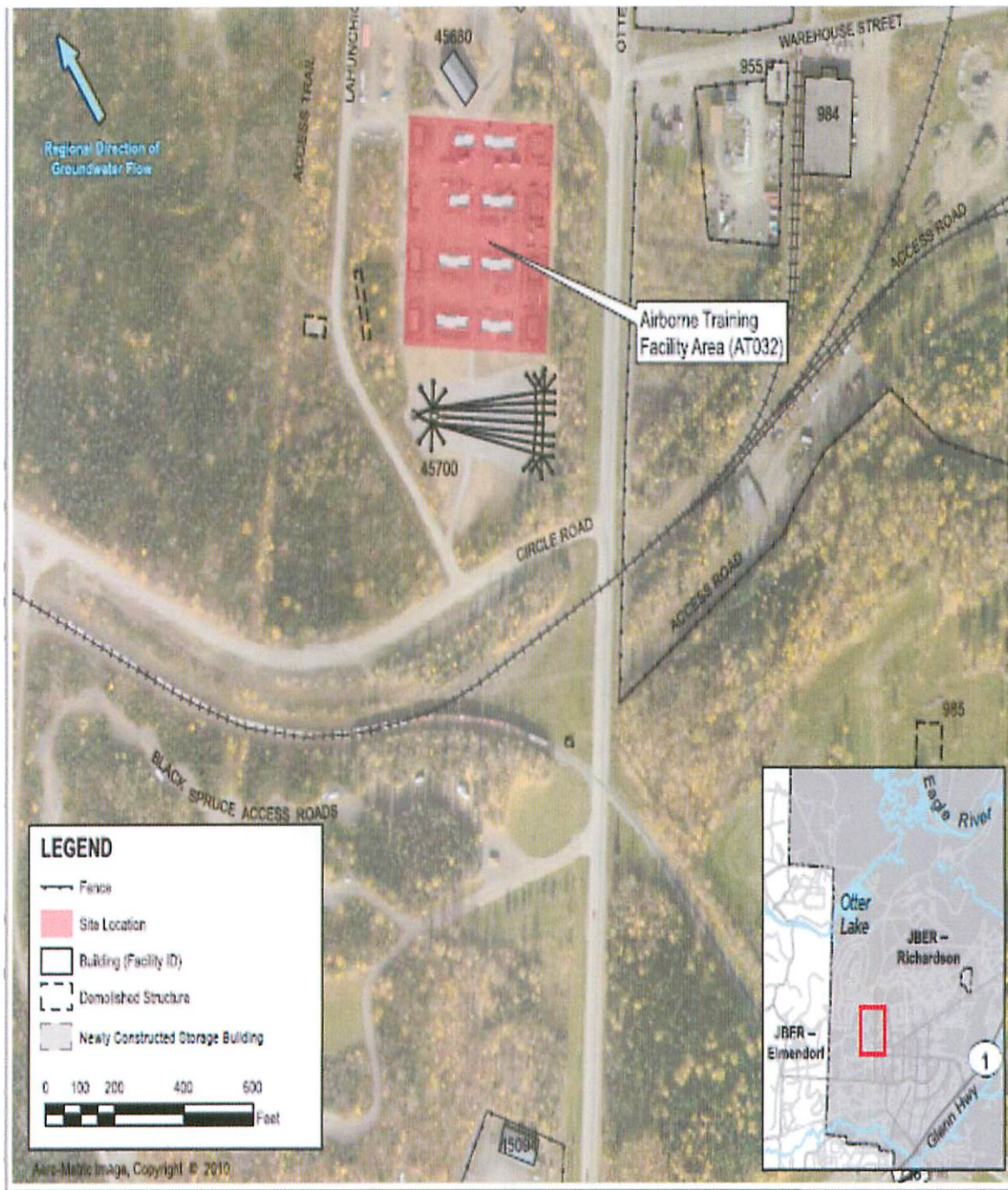
Pathway	Result	Explanation
Direct Contact with Surface Soil	Pathway Incomplete	No contamination present in surface soil
Direct Contact with Subsurface Soil:	De Minimus Exposure	Contamination remains in the sub-surface soil, but is below ingestion cleanup levels.
Outdoor Air Inhalation:	Pathway Incomplete	Contamination remains in the sub-surface, but is below inhalation cleanup levels.
Groundwater Ingestion:	Pathway Incomplete	Groundwater is not used as a drinking water source in the vicinity of the site.
Surface Water Ingestion:	Pathway Incomplete	Surface water is not present at the site.
Wild or Farmed Foods Ingestion:	Pathway Incomplete	Contaminants of concern do not have the potential to bioaccumulate in plants or animals.
Indoor Air Inhalation (Vapor Intrusion):	Pathway Incomplete	No soil or groundwater contaminants exceed VI screening criteria or cumulative risk levels
Ecological:	Pathway Incomplete	No visible surface staining, no distressed plants, no sediment transport to surface water.

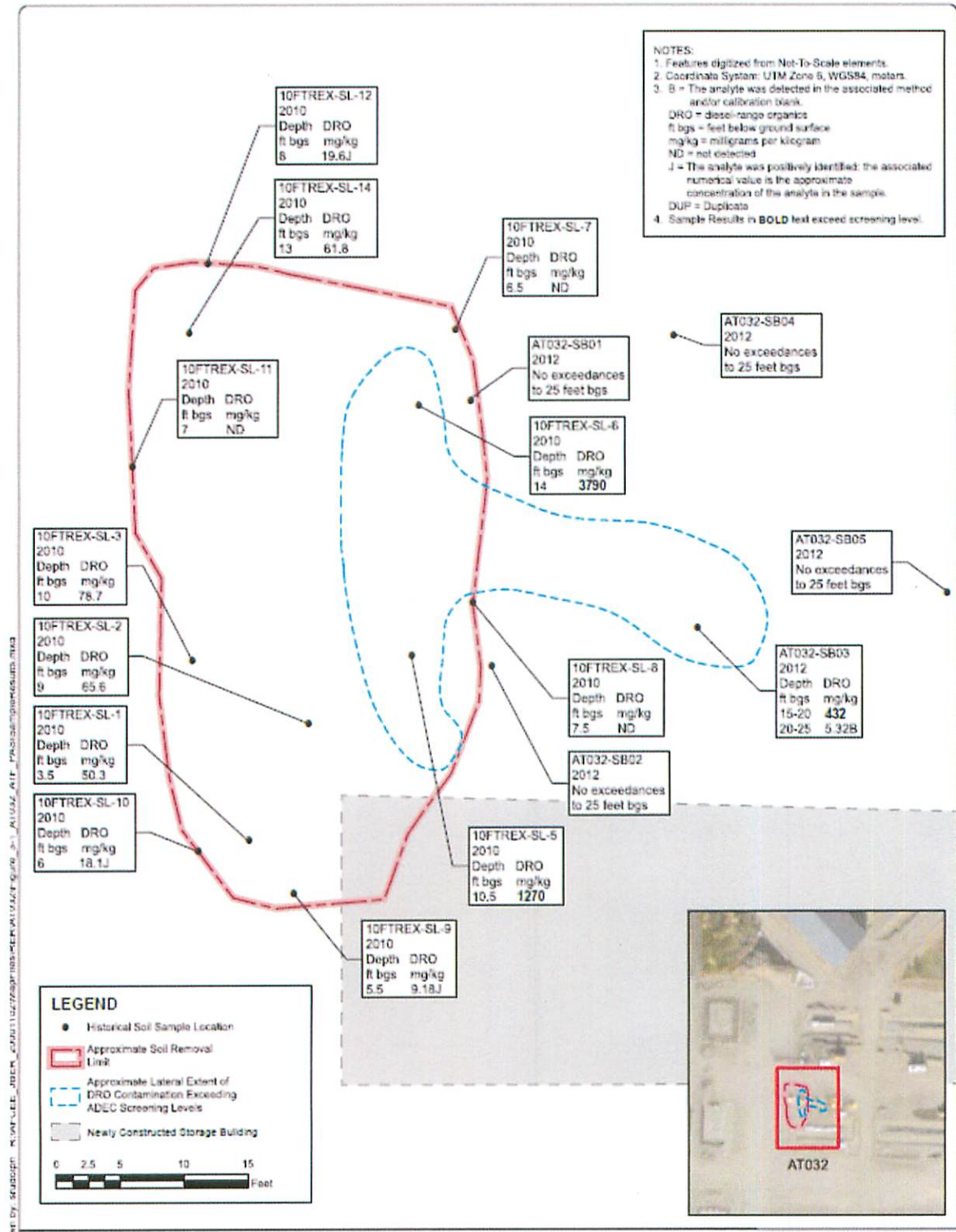
ADEC Decision

Based on a review of the environmental records, ADEC has determined that AT032 has been adequately characterized and has achieved the applicable requirements under the site cleanup rules. ADEC is issuing this written determination that cleanup is complete, subject to a future department determination that the cleanup is not protective of human health, safety, welfare, or of the environment [18 AAC 75.380(d)]. A “cleanup complete” designation will be entered for AT032 in the Contaminated Sites Database, subject to the following standard conditions.

Standard Conditions

1. Any proposal to transport soil or groundwater off-site from AT032 requires ADEC 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* (see figure below).
2. Movement or use of contaminated material in a manner that results in a violation of 18 AAC 70 water quality standards is prohibited.
3. Notations of these requirements shall be made on the Environmental Restoration map/ Base General Plan which will show up during a dig permit review/work clearance request process.





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, 555 Cordova Street, Anchorage, Alaska 99501-2617, 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 (907) 269-7552.

Sincerely,

A handwritten signature in blue ink that reads "Louis Howard". The signature is written in a cursive, flowing style.

Louis Howard
Environmental Program Specialist