



THE STATE  
of **ALASKA**  
GOVERNOR MIKE DUNLEAVY

Department of Environmental Conservation  
SPILL PREVENTION & RESPONSE  
Contaminated Sites Program

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Electronic delivery only

Lance Raymore  
Federal Aviation Administration  
Alaska Region Technical Operations  
222 W. 7<sup>th</sup> Ave, #14  
Anchorage, AK 99513

**RE: ADEC Approval, *DRAFT 2021 Release Investigation Report, Federal Aviation Administration Station Buildings 300, 100, and 103, Fort Yukon, Alaska. Dated April 12, 2022.***

Dear Mr. Raymore

The Alaska Department of Environmental Conservation (ADEC) has completed review of the aforementioned document detailing soil and groundwater characterization and vapor intrusion investigation which occurred at the Building 300, 100, and 103 areas of concern at the Federal Aviation Administration (FAA) Fort Yukon Facility located in Fort Yukon, Alaska.

*Shop Building 300 Former Drum Storage Area*

Prior to 1992 leaking drums were stored at the southeast corner of building 300 and soil staining was noted. A limited soil investigation in 1991 found elevated levels of petroleum hydrocarbons in surface soils. In 2021, three soil borings advanced to the groundwater table to collect soil samples and one monitoring well MW04 was installed and sampled.

All soil and groundwater samples collected in 2022 were clean. This area of concern is not listed on the ADEC contaminated sites database and will not be listed. ADEC recommends no further action and MW04 should be decommissioned.

*Former Quarters Building 100 UST 9-C-07*

The non-regulated heating oil tank UST 9-C-07 was removed in 1995. At this time high levels of diesel range organic (DRO), ethylbenzene, and xylenes were found in the excavation limits. Subsequent investigation in 2013 found contamination had reached the water table, groundwater

collected from the former tank area contained at 3.8 mg/kg. In 2021, twelve soil borings were advanced to delineate soil impacts and 3 were completed as monitoring wells.

Diesel range organic was detected at 2.6 mg/L in groundwater at the source area. ADEC recommends continued groundwater monitoring. An additional well should be installed east northeast of the source area well MW01 to delineate downgradient migration of DRO in groundwater.

*Former Flight Service Station Building 103 UST 9-C-08*

The non-regulated heating oil tank UST 9-C-08 was removed in 1995. At this time a small volume of DRO, ethylbenzene, and xylene contaminated soil remained in the excavation limits. the site was granted a cleanup complete determination by ADEC in 1995. In 2005 ADEC requested vapor intrusion investigation but elected not to reopen the site. In September 2021 and February of 2022, indoor air in multiple rooms and soil gas samples were collected to evaluate the vapor intrusion pathway.

Petroleum volatile organic compounds (VOCs) were not found in the crawlspace or soil gas samples. Air samples collected inside the boiler room exceeded the residential target levels for benzene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene and naphthalene. This exceedance is thought to be related to the building furnace, as these contaminants were not found in other indoor air samples, crawlspace air, or soil gas. ADEC agrees with the recommendation for no further action at this area of concern, the entry *FAA Fort Yukon Quarters Facility Bldg 103 UST 9-C-8* will remain closed in the ADEC contaminated sites database.

**The draft report for these three areas of concern is approved as written, please submit as final for our records.**

Thank you for your assistance in protecting human health and the environment. If you have any questions do not hesitate to contact me at (907) 451-5174 or via email at [michael.hooper@alaska.gov](mailto:michael.hooper@alaska.gov).

Sincerely,

Michael Hooper  
Environmental Program Specialist