

ATTACHMENT #1

PFAS PRELIMINARY SITE INVESTIGATION REPORT SUMMARY & RECOMMENDATIONS

CBJ – Juneau International Airport

1873 Shell Simmons Drive, Juneau, Alaska

SUMMARY:

The soil investigation included the collection of six soil samples from six borings.

- PFOS was detected in two of the six samples at concentrations ranging from 1.2 µg/kg to 31 µg/kg. One of the six detected concentrations (MW-6) exceeds the ADEC Method 2 Migration to Groundwater Cleanup Level of 3 µg/kg. All of the detected concentrations of PFOS are less than the ADEC Method 2 Human Health Cleanup level of 1,300 µg/kg.
- PFOA was detected in one of the six samples (MW-6) at a concentration of 0.44 µg/kg. The detected concentration is below the ADEC Method 2 Migration to Groundwater Cleanup Level of 1.7 µg/kg and less than the ADEC Method 2 Human Health Cleanup level of 1,300 µg/kg.

The groundwater investigation included the collection of five groundwater samples from five monitoring wells.

- PFOS was detected in five of the five samples at concentrations ranging from 3.4 ng/L to 750 ng/L. Two of the five detected concentrations (MW-3 and MW-6) exceed the ADEC Groundwater Cleanup Level of 400 ng/L.
- PFOA was detected in four of the five samples at concentrations ranging from 29 ng/L to 410 ng/L. One of the of the detected concentrations (MW-4) exceeds the ADEC Groundwater Cleanup Level of 400 ng/L.
- Four of the five calculated concentrations of PFOS+PFOA (MW-1, 369 ng/L; MW-3, 784 ng/L; MW-4, 477 ng/L; and MW-6 580 ng/L) exceed the USEPA LHA of 70 ng/L.

RECOMMENDATIONS:

- CBJ continue investigation of PFAS in soil and groundwater at the site and off-site surrounding properties to the south of the JIA to continue to work towards delineating the vertical and horizontal extent of PFAS contamination in soil and groundwater.
 - Additional soil borings and groundwater wells should be placed surrounding MW-6 to delineate the extent of PFAS contamination in soil and groundwater. MW-6 is located southwest of the Capital City Fire Rescue ARFF Station.
 - PFAS contamination was detected in MW-3 and MW-4, additional groundwater wells should be installed to the south of the JIA to delineate the extent of off-site groundwater contamination.
 - MW-2 was non-productive during sampling and appears to be affected by precipitation and/or tidal fluctuations. The well should be re-drilled and set with a 10' screen to allow for sampling during all conditions.

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- CBJ should establish a quarterly groundwater sampling program to begin to establish a trend in groundwater concentrations.
 - Now that PFAS has been detected on-site, monitoring wells MW-10 and MW-4 which were installed during previous on-site investigations should be added to the well network for sampling.
- The groundwater monitoring wells installed during this investigation should be surveyed so that elevation data can be utilized to evaluate groundwater flow direction.
- CBJ public water service is available to properties throughout the project area. CBJ should conduct a door to door and/or letter based private well search to confirm whether there are private wells still in service within the project area. If wells are discovered CES recommends CBJ make arrangements to sample the wells. The ADEC will require the CBJ to provide potable water if wells are discovered to be contaminated and the property is not already connected to CBJ public water until public service can be provided.