Table 4 - ISM Triplicate Sample Statistical Results

Analytical Method	Analyte	Regulatory Limit	Units	*21GST-PFAS-DU1* A	B	C	μ	SD	CV	RSD	95% UCL
EPA 537 - Modified PFAS	Perfluorohexanesulfonic acid (PFHxS)	—	ng/L	2.4	3.0	2.5	2.6	0.32	0.12	12%	3.2
	Perfluorohexanoic acid (PFHxA)	—	ng/L	0.93J	1.1J	1.1J*	1.0	0.098	0.094	9.4%	1.2
	Perfluoroheptanoic acid (PFHpA)	—	ng/L	<1.7	<1.7	0.24J	0.23	0.012	0.053	5.3%	0.25
	Perfluorononanoic acid (PFNA)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	Perfluorobutanesulfonic acid (PFBS)	—	ng/L	0.59J*	0.36J*	0.32J*	0.42	0.15	0.34	**34%**	0.67J*
	Perfluorodecanoic acid (PFDA)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	Perfluoroundecanoic acid (PFUnA)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	Perfluorododecanoic acid (PFDoA)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	Perfluorotridecanoic acid (PFTrDA)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	Perfluorotetradecanoic acid (PFTeA)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	—	ng/L	<4.4	<4.4	<4.5	NA	NA	NA	NA	<4.5
	N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	—	ng/L	<4.4	<4.4	<4.5	NA	NA	NA	NA	<4.5
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	—	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	—	ng/L	<3.5	<3.5	<3.6	NA	NA	NA	NA	<3.6
	Perfluorooctanesulfonic acid (PFOS)	70	ng/L	22	20	20	21	1.2	0.056	5.6%	22
	Perfluorooctanoic acid (PFOA)	70	ng/L	<1.7	<1.7	<1.8	NA	NA	NA	NA	<1.8

Notes:
Results reported from Eurofins TestAmerica Laboratory work order 320-774141-2.
The primary, duplicate, and triplicate samples for *21GST-PFAS-DU1* are denoted as A, B, and C, respectively.
For analytes with three non-detect results, the highest reporting limit (RL) is used for the 95% UCL.
All analytes with one or more detection had CVs less than 1.5 and are assumed to be normally distributed.
DEC Groundwater-Cleanup Levels from 18 AAC 75.345, Table C.

NA	For analytes with one or two non-detect results, the laboratory detection limit (DL) is substituted for statistical analysis.
μ	arithmetic mean
SD	standard deviation
CV	coefficient of variance
RSD	relative standard deviation (percent)
95% UCL	Upper Confidence Limit at a 95-precent confidence
DEC	Alaska Department of Environmental Conservation
PFAS	per- and poly-fluoroalkyl substances
ng/L	nanograms per liter, equivalent to parts per trillion
NA	Not applicable; statistical analysis cannot be performed for analytes with three non-detect results.
—	No applicable regulatory limit exists for the associated analyte.
<	Analyte was not detected; reported as <reporting limit (RL).
J	Estimated concentration, detected greater than the DL and less than the RL. Flag applied by the laboratory.
J*	Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc. (*)
BOLD	RSD exceeds 30%. Results for this analyte are considered estimated.