

ANALYTICAL REPORT

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Laboratory Job ID: 320-74143-1
Client Project/Site: King Salmon PFAS

For:
Shannon & Wilson, Inc
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Fairbanks, Alaska 99709-5244

Attn: Michael X Jaramillo



Authorized for release by:
6/2/2021 10:36:13 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Job ID: 320-74143-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-74143-1

Receipt

The samples were received on 5/25/2021 3:31 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. COC lists analysis for PFAS, however samples were not marked for method.AKNPW-012 (320-74143-1), AKNPW-112 (320-74143-2), AKNPW-008 (320-74143-3), AKNPW-011 (320-74143-4) and AKNPW-007 (320-74143-5)

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 537.1 DW: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-493149.

Method 537.1 DW: The following samples were observed to be light brown at final volume: AKNPW-008 (320-74143-3) and AKNPW-011 (320-74143-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Client Sample ID: AKNPW-012

Lab Sample ID: 320-74143-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	12		1.7	0.43	ng/L	1		537.1 DW	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.0		1.7	0.43	ng/L	1		537.1 DW	Total/NA
Perfluorooctanoic acid (PFOA)	16		1.7	0.43	ng/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.7	0.43	ng/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.0		1.7	0.43	ng/L	1		537.1 DW	Total/NA

Client Sample ID: AKNPW-112

Lab Sample ID: 320-74143-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	12		1.7	0.44	ng/L	1		537.1 DW	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.0		1.7	0.44	ng/L	1		537.1 DW	Total/NA
Perfluorooctanoic acid (PFOA)	15		1.7	0.44	ng/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.7	0.44	ng/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7.7		1.7	0.44	ng/L	1		537.1 DW	Total/NA

Client Sample ID: AKNPW-008

Lab Sample ID: 320-74143-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.3		1.7	0.42	ng/L	1		537.1 DW	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.69	J	1.7	0.42	ng/L	1		537.1 DW	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		1.7	0.42	ng/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.7	0.42	ng/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.7	0.42	ng/L	1		537.1 DW	Total/NA

Client Sample ID: AKNPW-011

Lab Sample ID: 320-74143-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.6		1.8	0.45	ng/L	1		537.1 DW	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.96	J	1.8	0.45	ng/L	1		537.1 DW	Total/NA
Perfluorooctanoic acid (PFOA)	5.7		1.8	0.45	ng/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.74	J	1.8	0.45	ng/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.8	0.45	ng/L	1		537.1 DW	Total/NA

Client Sample ID: AKNPW-007

Lab Sample ID: 320-74143-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	3.7		1.8	0.44	ng/L	1		537.1 DW	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.5		1.8	0.44	ng/L	1		537.1 DW	Total/NA
Perfluorooctanoic acid (PFOA)	3.9		1.8	0.44	ng/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.8	0.44	ng/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.8	0.44	ng/L	1		537.1 DW	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Client Sample ID: AKNPW-012

Lab Sample ID: 320-74143-1

Date Collected: 05/20/21 09:50

Matrix: Water

Date Received: 05/25/21 15:31

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	12		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluoroheptanoic acid (PFHpA)	3.0		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorooctanoic acid (PFOA)	16		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorobutanesulfonic acid (PFBS)	2.2		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorohexanesulfonic acid (PFHxS)	8.0		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.43	ng/L		05/26/21 19:19	05/27/21 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		70 - 130	05/26/21 19:19	05/27/21 19:05	1
13C2 PFDA	104		70 - 130	05/26/21 19:19	05/27/21 19:05	1
d5-NEtFOSAA	89		70 - 130	05/26/21 19:19	05/27/21 19:05	1
13C3 HFPO-DA	97		70 - 130	05/26/21 19:19	05/27/21 19:05	1

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Client Sample ID: AKNPW-112

Lab Sample ID: 320-74143-2

Date Collected: 05/20/21 09:40

Matrix: Water

Date Received: 05/25/21 15:31

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	12		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluoroheptanoic acid (PFHpA)	3.0		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorooctanoic acid (PFOA)	15		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorobutanesulfonic acid (PFBS)	2.1		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorohexanesulfonic acid (PFHxS)	7.7		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.44	ng/L		05/26/21 19:19	05/27/21 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	105		70 - 130	05/26/21 19:19	05/27/21 19:13	1
13C2 PFDA	102		70 - 130	05/26/21 19:19	05/27/21 19:13	1
d5-NEtFOSAA	88		70 - 130	05/26/21 19:19	05/27/21 19:13	1
13C3 HFPO-DA	96		70 - 130	05/26/21 19:19	05/27/21 19:13	1

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Client Sample ID: AKNPW-008

Lab Sample ID: 320-74143-3

Date Collected: 05/20/21 10:29

Matrix: Water

Date Received: 05/25/21 15:31

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	3.3		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluoroheptanoic acid (PFHpA)	0.69	J	1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorooctanoic acid (PFOA)	2.6		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.42	ng/L		05/26/21 19:19	05/27/21 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	105		70 - 130	05/26/21 19:19	05/27/21 19:21	1
13C2 PFDA	104		70 - 130	05/26/21 19:19	05/27/21 19:21	1
d5-NEtFOSAA	89		70 - 130	05/26/21 19:19	05/27/21 19:21	1
13C3 HFPO-DA	97		70 - 130	05/26/21 19:19	05/27/21 19:21	1

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Client Sample ID: AKNPW-011

Lab Sample ID: 320-74143-4

Date Collected: 05/20/21 11:01

Matrix: Water

Date Received: 05/25/21 15:31

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	4.6		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluoroheptanoic acid (PFHpA)	0.96	J	1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorooctanoic acid (PFOA)	5.7		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorobutanesulfonic acid (PFBS)	0.74	J	1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.45	ng/L		05/26/21 19:19	05/27/21 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		70 - 130	05/26/21 19:19	05/27/21 19:28	1
13C2 PFDA	107		70 - 130	05/26/21 19:19	05/27/21 19:28	1
d5-NEtFOSAA	87		70 - 130	05/26/21 19:19	05/27/21 19:28	1
13C3 HFPO-DA	97		70 - 130	05/26/21 19:19	05/27/21 19:28	1

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Client Sample ID: AKNPW-007

Lab Sample ID: 320-74143-5

Date Collected: 05/20/21 11:28

Matrix: Water

Date Received: 05/25/21 15:31

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	3.7		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluoroheptanoic acid (PFHpA)	5.5		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorooctanoic acid (PFOA)	3.9		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorobutanesulfonic acid (PFBS)	1.4 J		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.44	ng/L		05/26/21 19:19	05/27/21 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	110		70 - 130	05/26/21 19:19	05/27/21 19:36	1
13C2 PFDA	105		70 - 130	05/26/21 19:19	05/27/21 19:36	1
d5-NEtFOSAA	84		70 - 130	05/26/21 19:19	05/27/21 19:36	1
13C3 HFPO-DA	102		70 - 130	05/26/21 19:19	05/27/21 19:36	1

Surrogate Summary

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PFHxA (70-130)	PFDA (70-130)	d5NEFOS (70-130)	HFPODA (70-130)
320-74143-1	AKNPW-012	107	104	89	97
320-74143-2	AKNPW-112	105	102	88	96
320-74143-3	AKNPW-008	105	104	89	97
320-74143-4	AKNPW-011	104	107	87	97
320-74143-5	AKNPW-007	110	105	84	102
LCS 320-493149/2-A	Lab Control Sample	112	107	95	106
LCSD 320-493149/3-A	Lab Control Sample Dup	101	95	84	95
MB 320-493149/1-A	Method Blank	112	106	92	102
Surrogate Legend					
PFHxA = 13C2 PFHxA					
PFDA = 13C2 PFDA					
d5NEFOS = d5-NEtFOSAA					
HFPODA = 13C3 HFPO-DA					

QC Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MB 320-493149/1-A

Matrix: Water

Analysis Batch: 493665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 493149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		05/26/21 19:19	05/27/21 18:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	112		70 - 130	05/26/21 19:19	05/27/21 18:57	1
13C2 PFDA	106		70 - 130	05/26/21 19:19	05/27/21 18:57	1
d5-NEtFOSAA	92		70 - 130	05/26/21 19:19	05/27/21 18:57	1
13C3 HFPO-DA	102		70 - 130	05/26/21 19:19	05/27/21 18:57	1

Lab Sample ID: LCS 320-493149/2-A

Matrix: Water

Analysis Batch: 493665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid (PFHxA)	160	169		ng/L		106	70 - 130
Perfluoroheptanoic acid (PFHpA)	160	174		ng/L		109	70 - 130
Perfluorooctanoic acid (PFOA)	160	172		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	160	172		ng/L		107	70 - 130
Perfluorodecanoic acid (PFDA)	160	176		ng/L		110	70 - 130
Perfluoroundecanoic acid (PFUnA)	160	161		ng/L		101	70 - 130
Perfluorododecanoic acid (PFDoA)	160	158		ng/L		99	70 - 130
Perfluorotridecanoic acid (PFTriA)	160	163		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTeA)	160	156		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	141	138		ng/L		97	70 - 130

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 320-493149/2-A

Matrix: Water

Analysis Batch: 493665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanesulfonic acid (PFHxS)	146	146		ng/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	148	141		ng/L		95	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	160	145		ng/L		91	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	160	137		ng/L		86	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	149	146		ng/L		98	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	151	141		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	160	168		ng/L		105	70 - 130
	151	169		ng/L		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	112		70 - 130
13C2 PFDA	107		70 - 130
d5-NEtFOSAA	95		70 - 130
13C3 HFPO-DA	106		70 - 130

Lab Sample ID: LCSD 320-493149/3-A

Matrix: Water

Analysis Batch: 493665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 493149

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	160	155		ng/L		97	70 - 130	9	30
Perfluoroheptanoic acid (PFHpA)	160	158		ng/L		99	70 - 130	10	30
Perfluorooctanoic acid (PFOA)	160	157		ng/L		98	70 - 130	10	30
Perfluorononanoic acid (PFNA)	160	155		ng/L		97	70 - 130	10	30
Perfluorodecanoic acid (PFDA)	160	164		ng/L		102	70 - 130	7	30
Perfluoroundecanoic acid (PFUnA)	160	153		ng/L		96	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	160	153		ng/L		96	70 - 130	3	30
Perfluorotridecanoic acid (PFTriA)	160	155		ng/L		97	70 - 130	5	30
Perfluorotetradecanoic acid (PFTeA)	160	144		ng/L		90	70 - 130	7	30
Perfluorobutanesulfonic acid (PFBS)	141	131		ng/L		92	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	146	139		ng/L		95	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	148	133		ng/L		89	70 - 130	6	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	160	135		ng/L		85	70 - 130	7	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	160	129		ng/L		81	70 - 130	6	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O)	149	142		ng/L		95	70 - 130	3	30

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 320-493149/3-A

Matrix: Water

Analysis Batch: 493665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 493149

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	151	142		ng/L		95	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	160	155		ng/L		97	70 - 130	8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	151	151		ng/L		100	70 - 130	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFHxA	101		70 - 130
13C2 PFDA	95		70 - 130
d5-NEtFOSAA	84		70 - 130
13C3 HFPO-DA	95		70 - 130

QC Association Summary

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

LCMS

Prep Batch: 493149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74143-1	AKNPW-012	Total/NA	Water	537.1 DW	
320-74143-2	AKNPW-112	Total/NA	Water	537.1 DW	
320-74143-3	AKNPW-008	Total/NA	Water	537.1 DW	
320-74143-4	AKNPW-011	Total/NA	Water	537.1 DW	
320-74143-5	AKNPW-007	Total/NA	Water	537.1 DW	
MB 320-493149/1-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 320-493149/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	
LCSD 320-493149/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	

Analysis Batch: 493665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74143-1	AKNPW-012	Total/NA	Water	537.1 DW	493149
320-74143-2	AKNPW-112	Total/NA	Water	537.1 DW	493149
320-74143-3	AKNPW-008	Total/NA	Water	537.1 DW	493149
320-74143-4	AKNPW-011	Total/NA	Water	537.1 DW	493149
320-74143-5	AKNPW-007	Total/NA	Water	537.1 DW	493149
MB 320-493149/1-A	Method Blank	Total/NA	Water	537.1 DW	493149
LCS 320-493149/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	493149
LCSD 320-493149/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	493149

Lab Chronicle

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Client Sample ID: AKNPW-012

Lab Sample ID: 320-74143-1

Date Collected: 05/20/21 09:50

Matrix: Water

Date Received: 05/25/21 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			293.4 mL	1.00 mL	493149	05/26/21 19:19	AP	TAL SAC
Total/NA	Analysis	537.1 DW		1			493665	05/27/21 19:05	D1R	TAL SAC

Client Sample ID: AKNPW-112

Lab Sample ID: 320-74143-2

Date Collected: 05/20/21 09:40

Matrix: Water

Date Received: 05/25/21 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			286.8 mL	1.00 mL	493149	05/26/21 19:19	AP	TAL SAC
Total/NA	Analysis	537.1 DW		1			493665	05/27/21 19:13	D1R	TAL SAC

Client Sample ID: AKNPW-008

Lab Sample ID: 320-74143-3

Date Collected: 05/20/21 10:29

Matrix: Water

Date Received: 05/25/21 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			300.7 mL	1.00 mL	493149	05/26/21 19:19	AP	TAL SAC
Total/NA	Analysis	537.1 DW		1			493665	05/27/21 19:21	D1R	TAL SAC

Client Sample ID: AKNPW-011

Lab Sample ID: 320-74143-4

Date Collected: 05/20/21 11:01

Matrix: Water

Date Received: 05/25/21 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			277.8 mL	1.00 mL	493149	05/26/21 19:19	AP	TAL SAC
Total/NA	Analysis	537.1 DW		1			493665	05/27/21 19:28	D1R	TAL SAC

Client Sample ID: AKNPW-007

Lab Sample ID: 320-74143-5

Date Collected: 05/20/21 11:28

Matrix: Water

Date Received: 05/25/21 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			283.1 mL	1.00 mL	493149	05/26/21 19:19	AP	TAL SAC
Total/NA	Analysis	537.1 DW		1			493665	05/27/21 19:36	D1R	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Eurofins TestAmerica, Sacramento

Accreditation/Certification Summary

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-18-22
Kansas	NELAP	E-10375	10-31-21
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-30-23
Texas	NELAP	T104704399-19-13	05-31-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Sacramento

Method Summary

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Method	Method Description	Protocol	Laboratory
537.1 DW	Perfluorinated Alkyl Acids (LC/MS)	EPA	TAL SAC
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Shannon & Wilson, Inc
Project/Site: King Salmon PFAS

Job ID: 320-74143-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-74143-1	AKNPW-012	Water	05/20/21 09:50	05/25/21 15:31	
320-74143-2	AKNPW-112	Water	05/20/21 09:40	05/25/21 15:31	
320-74143-3	AKNPW-008	Water	05/20/21 10:29	05/25/21 15:31	
320-74143-4	AKNPW-011	Water	05/20/21 11:01	05/25/21 15:31	
320-74143-5	AKNPW-007	Water	05/20/21 11:28	05/25/21 15:31	

CHAIN-OF-CUSTODY RECORD

2355 Hill Road
Fairbanks, AK 99709
(907) 479-0600
www.shannonwilson.com

Laboratory TestAmerica Page 1 of 1
Attn: David Alltucker

Analytical Methods (include preservative if used)

Turn Around Time:	☒ Normal ☐ Rush	Quote No:
	Please Specify	J-Flags: ☒ Yes ☐ No

J-Flags: ☒ Yes ☐ No

Sample Identity	Lab No.	Time	Date Sampled
AKNPW-012		950	5/20/21
AKNPW-112		940	
AKNPW-008		1029	
AKNPW-011		1101	
AKNPW-007		1128	

Project Information		Sample Receipt	
Number:	102582-010	Total No. of Containers:	10
Name:	King Salmon PFAS	COC Seals/Intact?	Y/N/A
Contact:	Michael Jacamillo	Received Good Cond./Cold	
Ongoing Project?	Yes ☒ No ☐	Temp:	5.2 C
Sampler:	RLW	Delivery Method:	Hand to Gold

Notes:

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - job file

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: <i>[Signature]</i> Printed Name: <i>Sheila Hinkley</i> Date: <i>5/24/21</i>	Signature: _____ Printed Name: _____ Date: _____	Signature: _____ Printed Name: _____ Date: _____
Company: <i>Shannon Wilcox, Inc.</i>	Company: _____	Company: _____
Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: <i>[Signature]</i> Printed Name: <i>David H</i> Date: <i>5/25/21</i>	Signature: _____ Printed Name: _____ Date: _____	Signature: _____ Printed Name: _____ Date: _____
Company: <i>[Signature]</i>	Company: _____	Company: _____

2.100

No. 36200

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Login Sample Receipt Checklist

Client: Shannon & Wilson, Inc

Job Number: 320-74143-1

Login Number: 74143

List Number: 1

Creator: Her, David A

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1502959/1502961
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Analyses listed on COC; individual samples not designated for specific analyses
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	