

 **ANALYTICAL REPORT****PREPARED FOR**

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JOB DESCRIPTION

Wisconsin PFAS - Nicole & John Paulson

JOB NUMBER

320-105787-1

Eurofins Sacramento

Job Notes

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Authorization



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Definitions/Glossary

Client: Cossich, Sumich, Parsiola & Taylor LLC
Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
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: Cossich, Sumich, Parsiola & Taylor LLC
Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Job ID: 320-105787-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-105787-1

Receipt

The sample was received on 10/10/2023 9:10 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved. The cooler did not include any cooling agent and the temperature of the cooler at receipt was 17.8° C, which is above the recommended temperature..

Receipt Exceptions

The requested analyses was not listed on the Chain-of-Custody (COC), and the COC lists each container as 2 separate samples. Based on prior discussions regarding this project, the containers were logged in as a single sample for the analysis for PFAS by 537 MOD (UCMR5 List). Bottle 1 & Bottle 2 (320-105787-1)

The Chain-of-Custody (COC) was not signed at the time the sample were relinquished.

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. Bottle 1 & Bottle 2 (320-105787-1)

Method 537 (modified): Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for the following sample: Bottle 1 & Bottle 2 (320-105787-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Some results for sample Bottle 1 & Bottle 2 (320-105787-1) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were outside acceptance limits. The target analyte concentrations between the diluted and the undiluted analyses are comparable. The internal standard is not used to calculate the target analyte concentrations, therefore the data is reported.

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike duplicate/sample duplicate (MSD/DUP) associated with preparation batch 320-713734.

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

Detection Summary

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Client Sample ID: Bottle 1 & Bottle 2

Lab Sample ID: 320-105787-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	1.40	J	1.80	0.244	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	20.2		1.80	0.180	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	26.5		1.80	0.271	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	7.41		1.80	0.171	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.32	I	1.80	0.487	ng/L	1		537 (modified)	Total/NA
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	50.8		1.80	0.216	ng/L	1		537 (modified)	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.734	J	1.80	0.253	ng/L	1		537 (modified)	Total/NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.546	J	1.80	0.234	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	2510		225	108	ng/L	50		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	7400		90.2	22.1	ng/L	50		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	8630		90.2	26.2	ng/L	50		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	10900		90.2	11.3	ng/L	50		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	391		90.2	25.7	ng/L	50		537 (modified)	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) - DL	4320		225	113	ng/L	50		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL2	31300		180	76.7	ng/L	100		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Client Sample ID: Bottle 1 & Bottle 2

Lab Sample ID: 320-105787-1

Date Collected: 10/07/23 10:20

Matrix: Water

Date Received: 10/10/23 09:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	1.40	J	1.80	0.244	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluorodecanoic acid (PFDA)	ND		1.80	0.280	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluoroundecanoic acid (PFUnA)	ND		1.80	0.992	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluorododecanoic acid (PFDoA)	ND		1.80	0.496	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.80	1.17	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.80	0.658	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluorobutanesulfonic acid (PFBS)	20.2		1.80	0.180	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluoropentanesulfonic acid (PFPeS)	26.5		1.80	0.271	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluoroheptanesulfonic acid (PFHpS)	7.41		1.80	0.171	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluorooctanesulfonic acid (PFOS)	5.32	I	1.80	0.487	ng/L		10/17/23 12:08	10/21/23 01:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	50.8		1.80	0.216	ng/L		10/17/23 12:08	10/21/23 01:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.80	0.415	ng/L		10/17/23 12:08	10/21/23 01:19	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	ND		4.51	1.08	ng/L		10/17/23 12:08	10/21/23 01:19	1
NEtFOSAA	ND		4.51	1.17	ng/L		10/17/23 12:08	10/21/23 01:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		3.61	1.35	ng/L		10/17/23 12:08	10/21/23 01:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.80	0.289	ng/L		10/17/23 12:08	10/21/23 01:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.80	0.216	ng/L		10/17/23 12:08	10/21/23 01:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.80	0.361	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.734	J	1.80	0.253	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.546	J	1.80	0.234	ng/L		10/17/23 12:08	10/21/23 01:19	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.80	0.559	ng/L		10/17/23 12:08	10/21/23 01:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.80	0.262	ng/L		10/17/23 12:08	10/21/23 01:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	154	*5+	25 - 150	10/17/23 12:08	10/21/23 01:19	1
13C2 PFDA	163	*5+	25 - 150	10/17/23 12:08	10/21/23 01:19	1
13C2 PFUnA	150		25 - 150	10/17/23 12:08	10/21/23 01:19	1
13C2 PFDoA	142		25 - 150	10/17/23 12:08	10/21/23 01:19	1
13C2 PFTeDA	136		25 - 150	10/17/23 12:08	10/21/23 01:19	1
13C3 PFBS	150		25 - 150	10/17/23 12:08	10/21/23 01:19	1
13C4 PFOS	139		25 - 150	10/17/23 12:08	10/21/23 01:19	1
M2-4:2 FTS	103		25 - 150	10/17/23 12:08	10/21/23 01:19	1
M2-8:2 FTS	148		25 - 150	10/17/23 12:08	10/21/23 01:19	1
d3-NMeFOSAA	155	*5+	25 - 150	10/17/23 12:08	10/21/23 01:19	1
d5-NEtFOSAA	159	*5+	25 - 150	10/17/23 12:08	10/21/23 01:19	1
13C3 HFPO-DA	144		25 - 150	10/17/23 12:08	10/21/23 01:19	1

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Client Sample Results

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Client Sample ID: Bottle 1 & Bottle 2

Lab Sample ID: 320-105787-1

Date Collected: 10/07/23 10:20

Matrix: Water

Date Received: 10/10/23 09:10

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2510		225	108	ng/L		10/17/23 12:08	10/24/23 11:49	50
Perfluoropentanoic acid (PFPeA)	7400		90.2	22.1	ng/L		10/17/23 12:08	10/24/23 11:49	50
Perfluorohexanoic acid (PFHxA)	8630		90.2	26.2	ng/L		10/17/23 12:08	10/24/23 11:49	50
Perfluoroheptanoic acid (PFHpA)	10900		90.2	11.3	ng/L		10/17/23 12:08	10/24/23 11:49	50
Perfluorohexanesulfonic acid (PFHxS)	391		90.2	25.7	ng/L		10/17/23 12:08	10/24/23 11:49	50
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4320		225	113	ng/L		10/17/23 12:08	10/24/23 11:49	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	66		25 - 150	10/17/23 12:08	10/24/23 11:49	50
13C5 PFPeA	67		25 - 150	10/17/23 12:08	10/24/23 11:49	50
13C2 PFHxA	70		25 - 150	10/17/23 12:08	10/24/23 11:49	50
13C4 PFHpA	69		25 - 150	10/17/23 12:08	10/24/23 11:49	50
18O2 PFHxS	70		25 - 150	10/17/23 12:08	10/24/23 11:49	50
13C2 6:2 FTS	113		25 - 150	10/17/23 12:08	10/24/23 11:49	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	31300		180	76.7	ng/L		10/17/23 12:08	10/31/23 20:56	100

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	62		25 - 150	10/17/23 12:08	10/31/23 20:56	100

Isotope Dilution Summary

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-105787-1	Bottle 1 & Bottle 2						154 *5+	163 *5+	150
320-105787-1 - DL	Bottle 1 & Bottle 2	66	67	70	69				
320-105787-1 - DL2	Bottle 1 & Bottle 2					62			
LCS 320-713734/2-A	Lab Control Sample	113	109	108	116	108	110	119	115
LCSD 320-713734/3-A	Lab Control Sample Dup	106	106	107	104	96	107	119	109
MB 320-713734/1-A	Method Blank	97	95	90	95	99	92	102	93

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-105787-1	Bottle 1 & Bottle 2	142	136	150		139	103		148
320-105787-1 - DL	Bottle 1 & Bottle 2				70			113	
320-105787-1 - DL2	Bottle 1 & Bottle 2								
LCS 320-713734/2-A	Lab Control Sample	108	97	112	111	109	89	93	107
LCSD 320-713734/3-A	Lab Control Sample Dup	103	93	112	108	109	96	89	97
MB 320-713734/1-A	Method Blank	93	86	96	95	91	82	86	92

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d3NMFOS (25-150)	d5NEFOS (25-150)	HFPODA (25-150)
320-105787-1	Bottle 1 & Bottle 2	155 *5+	159 *5+	144
320-105787-1 - DL	Bottle 1 & Bottle 2			
320-105787-1 - DL2	Bottle 1 & Bottle 2			
LCS 320-713734/2-A	Lab Control Sample	123	127	107
LCSD 320-713734/3-A	Lab Control Sample Dup	124	122	104
MB 320-713734/1-A	Method Blank	112	109	89

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- M242FTS = M2-4:2 FTS
- M262FTS = 13C2 6:2 FTS
- M282FTS = M2-8:2 FTS
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-713734/1-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.00	2.40	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoropentanoic acid (PFPeA)	ND		2.00	0.490	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorohexanoic acid (PFHxA)	ND		2.00	0.580	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoroheptanoic acid (PFHpA)	ND		2.00	0.250	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorooctanoic acid (PFOA)	ND		2.00	0.850	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorononanoic acid (PFNA)	ND		2.00	0.270	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorodecanoic acid (PFDA)	ND		2.00	0.310	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoroundecanoic acid (PFUnA)	ND		2.00	1.10	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorododecanoic acid (PFDoA)	ND		2.00	0.550	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.00	1.30	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.00	0.730	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.00	0.200	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.00	0.300	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.00	0.570	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.00	0.190	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.00	0.540	ng/L		10/17/23 12:08	10/20/23 23:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		2.00	0.240	ng/L		10/17/23 12:08	10/20/23 23:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		5.00	2.50	ng/L		10/17/23 12:08	10/20/23 23:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.00	0.460	ng/L		10/17/23 12:08	10/20/23 23:04	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	ND		5.00	1.20	ng/L		10/17/23 12:08	10/20/23 23:04	1
NEtFOSAA	ND		5.00	1.30	ng/L		10/17/23 12:08	10/20/23 23:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		4.00	1.50	ng/L		10/17/23 12:08	10/20/23 23:04	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.00	0.320	ng/L		10/17/23 12:08	10/20/23 23:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.00	0.240	ng/L		10/17/23 12:08	10/20/23 23:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.00	0.400	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.00	0.280	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.00	0.260	ng/L		10/17/23 12:08	10/20/23 23:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.00	0.620	ng/L		10/17/23 12:08	10/20/23 23:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		2.00	0.290	ng/L		10/17/23 12:08	10/20/23 23:04	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C5 PFPeA	95		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C2 PFHxA	90		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C4 PFHpA	95		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C4 PFOA	99		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C5 PFNA	92		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C2 PFDA	102		25 - 150	10/17/23 12:08	10/20/23 23:04	1

Eurofins Sacramento

QC Sample Results

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-713734/1-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713734

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFUnA	93		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C2 PFDoA	93		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C2 PFTeDA	86		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C3 PFBS	96		25 - 150	10/17/23 12:08	10/20/23 23:04	1
18O2 PFHxS	95		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C4 PFOS	91		25 - 150	10/17/23 12:08	10/20/23 23:04	1
M2-4:2 FTS	82		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C2 6:2 FTS	86		25 - 150	10/17/23 12:08	10/20/23 23:04	1
M2-8:2 FTS	92		25 - 150	10/17/23 12:08	10/20/23 23:04	1
d3-NMeFOSAA	112		25 - 150	10/17/23 12:08	10/20/23 23:04	1
d5-NEtFOSAA	109		25 - 150	10/17/23 12:08	10/20/23 23:04	1
13C3 HFPO-DA	89		25 - 150	10/17/23 12:08	10/20/23 23:04	1

Lab Sample ID: LCS 320-713734/2-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	40.0	35.74		ng/L		89	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	36.50		ng/L		91	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	37.96		ng/L		95	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	36.23		ng/L		91	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	34.88		ng/L		87	70 - 130
Perfluorononanoic acid (PFNA)	40.0	38.66		ng/L		97	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	33.65		ng/L		84	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	36.28		ng/L		91	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	38.28		ng/L		96	71 - 131
Perfluorotridecanoic acid (PFTrDA)	40.0	35.60		ng/L		89	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	35.77		ng/L		89	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.5	33.86		ng/L		95	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.6	34.67		ng/L		92	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.5	28.94		ng/L		79	59 - 119
Perfluoroheptanesulfonic acid (PFHpS)	38.2	35.07		ng/L		92	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.2	36.58		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	37.5	34.48		ng/L		92	79 - 139
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	38.1	30.54		ng/L		80	59 - 175
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	38.4	34.91		ng/L		91	75 - 135
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	36.02		ng/L		90	76 - 136
NEtFOSAA	40.0	35.74		ng/L		89	76 - 136

Eurofins Sacramento

QC Sample Results

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-713734/2-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	40.0	35.15		ng/L		88	51 - 173
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	31.35		ng/L		83	54 - 114
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	31.03		ng/L		83	75 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	34.84		ng/L		92	79 - 139
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	35.91		ng/L		90	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	38.59		ng/L		96	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	38.97		ng/L		97	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	35.7	32.62		ng/L		91	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	113		25 - 150
13C5 PFPeA	109		25 - 150
13C2 PFHxA	108		25 - 150
13C4 PFHpA	116		25 - 150
13C4 PFOA	108		25 - 150
13C5 PFNA	110		25 - 150
13C2 PFDA	119		25 - 150
13C2 PFUnA	115		25 - 150
13C2 PFDoA	108		25 - 150
13C2 PFTeDA	97		25 - 150
13C3 PFBS	112		25 - 150
18O2 PFHxS	111		25 - 150
13C4 PFOS	109		25 - 150
M2-4:2 FTS	89		25 - 150
13C2 6:2 FTS	93		25 - 150
M2-8:2 FTS	107		25 - 150
d3-NMeFOSAA	123		25 - 150
d5-NEtFOSAA	127		25 - 150
13C3 HFPO-DA	107		25 - 150

Lab Sample ID: LCSD 320-713734/3-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 713734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	37.56		ng/L		94	76 - 136	5	30
Perfluoropentanoic acid (PFPeA)	40.0	36.65		ng/L		92	71 - 131	0	30
Perfluorohexanoic acid (PFHxA)	40.0	37.53		ng/L		94	73 - 133	1	30
Perfluoroheptanoic acid (PFHpA)	40.0	37.93		ng/L		95	72 - 132	5	30
Perfluorooctanoic acid (PFOA)	40.0	38.10		ng/L		95	70 - 130	9	30
Perfluorononanoic acid (PFNA)	40.0	38.66		ng/L		97	75 - 135	0	30

Eurofins Sacramento

QC Sample Results

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-713734/3-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 713734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorodecanoic acid (PFDA)	40.0	35.91		ng/L		90	76 - 136	7	30
Perfluoroundecanoic acid (PFUnA)	40.0	37.50		ng/L		94	68 - 128	3	30
Perfluorododecanoic acid (PFDoA)	40.0	39.15		ng/L		98	71 - 131	2	30
Perfluorotridecanoic acid (PFTrDA)	40.0	36.76		ng/L		92	71 - 131	3	30
Perfluorotetradecanoic acid (PFTeA)	40.0	36.39		ng/L		91	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	35.5	33.43		ng/L		94	67 - 127	1	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	33.68		ng/L		90	66 - 126	3	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	30.56		ng/L		84	59 - 119	5	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	34.72		ng/L		91	76 - 136	1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	34.96		ng/L		94	70 - 130	5	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	37.5	30.03		ng/L		80	79 - 139	14	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	38.1	34.47		ng/L		91	59 - 175	12	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	38.4	40.30		ng/L		105	75 - 135	14	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	37.64		ng/L		94	76 - 136	4	30
NEtFOSAA	40.0	37.74		ng/L		94	76 - 136	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	40.0	35.91		ng/L		90	51 - 173	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	30.74		ng/L		81	54 - 114	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	32.28		ng/L		86	75 - 135	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.34		ng/L		96	79 - 139	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	36.58		ng/L		91	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	39.62		ng/L		99	70 - 130	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	40.72		ng/L		102	70 - 130	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	32.13		ng/L		90	70 - 130	1	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	106		25 - 150
13C5 PFPeA	106		25 - 150
13C2 PFHxA	107		25 - 150
13C4 PFHpA	104		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	107		25 - 150

Eurofins Sacramento

QC Sample Results

Client: Cossich, Sumich, Parsiola & Taylor LLC
Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-713734/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 714378

Prep Batch: 713734

<i>Isotope Dilution</i>	<i>LCSD LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 PFDA	119		25 - 150
13C2 PFUnA	109		25 - 150
13C2 PFDoA	103		25 - 150
13C2 PFTeDA	93		25 - 150
13C3 PFBS	112		25 - 150
18O2 PFHxS	108		25 - 150
13C4 PFOS	109		25 - 150
M2-4:2 FTS	96		25 - 150
13C2 6:2 FTS	89		25 - 150
M2-8:2 FTS	97		25 - 150
d3-NMeFOSAA	124		25 - 150
d5-NEtFOSAA	122		25 - 150
13C3 HFPO-DA	104		25 - 150

QC Association Summary

Client: Cossich, Sumich, Parsiola & Taylor LLC
Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

LCMS

Prep Batch: 713734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-105787-1 - DL2	Bottle 1 & Bottle 2	Total/NA	Water	3535	
320-105787-1	Bottle 1 & Bottle 2	Total/NA	Water	3535	
320-105787-1 - DL	Bottle 1 & Bottle 2	Total/NA	Water	3535	
MB 320-713734/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-713734/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-713734/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 714378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-105787-1	Bottle 1 & Bottle 2	Total/NA	Water	537 (modified)	713734
MB 320-713734/1-A	Method Blank	Total/NA	Water	537 (modified)	713734
LCS 320-713734/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	713734
LCSD 320-713734/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	713734

Analysis Batch: 715145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-105787-1 - DL	Bottle 1 & Bottle 2	Total/NA	Water	537 (modified)	713734

Analysis Batch: 716960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-105787-1 - DL2	Bottle 1 & Bottle 2	Total/NA	Water	537 (modified)	713734

Lab Chronicle

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Client Sample ID: Bottle 1 & Bottle 2

Lab Sample ID: 320-105787-1

Date Collected: 10/07/23 10:20

Matrix: Water

Date Received: 10/10/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL2		277.2 mL	10.0 mL	713734	10/17/23 12:08	EFG	EET SAC
Total/NA	Analysis	537 (modified)	DL2	100	1 mL	1 mL	716960	10/31/23 20:56	K1S	EET SAC
Total/NA	Prep	3535			277.2 mL	10.0 mL	713734	10/17/23 12:08	EFG	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	714378	10/21/23 01:19	C1P	EET SAC
Total/NA	Prep	3535	DL		277.2 mL	10.0 mL	713734	10/17/23 12:08	EFG	EET SAC
Total/NA	Analysis	537 (modified)	DL	50	1 mL	1 mL	715145	10/24/23 11:49	S1M	EET SAC

Laboratory References:

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



Accreditation/Certification Summary

Client: Cossich, Sumich, Parsiola & Taylor LLC
 Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Louisiana (All)	NELAP	01944	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
537 (modified)	3535	Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
537 (modified)	3535	Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
537 (modified)	3535	Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
537 (modified)	3535	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 (modified)	3535	Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
537 (modified)	3535	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537 (modified)	3535	Water	NEIFOSAA
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
537 (modified)	3535	Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)
537 (modified)	3535	Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
537 (modified)	3535	Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanesulfonic acid (PFPeS)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTrDA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Cossich, Sumich, Parsiola & Taylor LLC
Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



Sample Summary

Client: Cossich, Sumich, Parsiola & Taylor LLC
Project/Site: Wisconsin PFAS - Nicole & John Paulson

Job ID: 320-105787-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
320-105787-1	Bottle 1 & Bottle 2	Water	10/07/23 10:20	10/10/23 09:10

1

2

3

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11

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14



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 3.0
105 '87

Tracking #: 6570 6543 1286

Job: _____

SO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: <u>L06</u> Corr. Factor: (+/-) <u>NA</u> °C	Notes: <u>No ice</u>
Ice _____ Wet <input checked="" type="checkbox"/> Gel _____ Other _____	<u>incomplete COC</u>
Cooler Custody Seal: <u>2113428, 2113429</u>	_____
Cooler ID: _____	_____
Temp Observed: <u>17.8</u> °C Corrected: <u>17.8</u> °C	_____
From: Temp Blank <input type="checkbox"/> Sample <input checked="" type="checkbox"/>	_____
Opening/Processing The Shipment	_____
Yes No NA	_____
Cooler compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	_____
Cooler Temperature is acceptable? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	_____
Frozen samples show signs of thaw? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	_____
Initials: <u>DM</u> Date: <u>10/10/23</u>	_____
Unpacking/Labeling The Samples	_____
Yes No NA	_____
Containers are not broken or leaking? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Samples compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	_____
COC is complete w/o discrepancies <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Sample custody seal? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	_____
Sample containers have legible labels? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Sample date/times are provided? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Appropriate containers are used? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Sample bottles are completely filled? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Sample preservatives verified? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	_____
Is the Field Sampler's name on COC? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	_____
Samples w/o discrepancies? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Zero headspace?* <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	_____
Alkalinity has no headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	_____
Perchlorate has headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	_____
(Methods 314, 331, 6850)	_____
Multiphasic samples are not present? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Trizma Lot #(s): _____	_____
Ammonium	_____
Acetate Lot #(s): _____	_____
Login Completion	Yes No NA
Receipt Temperature on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
NCM Filled? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples received within hold time? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Log Release checked in TALS? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Initials: <u>DM</u> Date: <u>10/10/23</u>	Initials: <u>DM</u> Date: <u>10/10/23</u>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")