

November 06, 2023

Amy Ewing

Daniel B. Stephens & Assoc.  
6020 Academy NE Suite 100  
Albuquerque, NM 87109  
TEL: (505) 822-9400  
FAX: (505) 822-8877

RE: LCLC domestic Well Sampling

OrderNo.: 2310374

Dear Amy Ewing:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 10/6/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-1

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 9:20:00 AM

**Lab ID:** 2310374-001

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Fluoride	ND	0.10		mg/L	1	10/6/2023 9:03:12 PM	A100294
Chloride	55	10		mg/L	20	10/6/2023 9:15:37 PM	A100294
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	10/6/2023 9:03:12 PM	A100294
Bromide	0.14	0.10		mg/L	1	10/6/2023 9:03:12 PM	A100294
Nitrogen, Nitrate (As N)	1.6	0.10		mg/L	1	10/6/2023 9:03:12 PM	A100294
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	10/6/2023 9:03:12 PM	A100294
Sulfate	31	0.50		mg/L	1	10/6/2023 9:03:12 PM	A100294
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	580	10		µmhos/c	1	10/12/2023 7:05:56 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	170.5	20.00		mg/L Ca	1	10/12/2023 7:05:56 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 7:05:56 PM	B100435
Total Alkalinity (as CaCO3)	170.5	20.00		mg/L Ca	1	10/12/2023 7:05:56 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	369	50.0		mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	83	1.0		mg/L	1	10/12/2023 1:52:02 PM	B100429
Magnesium	13	1.0		mg/L	1	10/12/2023 1:52:02 PM	B100429
Potassium	1.8	1.0		mg/L	1	10/12/2023 1:52:02 PM	B100429
Sodium	18	1.0		mg/L	1	10/12/2023 1:52:02 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-2

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 9:30:00 AM

**Lab ID:** 2310374-002

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Fluoride	ND	0.10		mg/L	1	10/6/2023 9:28:02 PM	A100294
Chloride	57	10		mg/L	20	10/6/2023 9:40:26 PM	A100294
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	10/6/2023 9:28:02 PM	A100294
Bromide	0.14	0.10		mg/L	1	10/6/2023 9:28:02 PM	A100294
Nitrogen, Nitrate (As N)	1.6	0.10		mg/L	1	10/6/2023 9:28:02 PM	A100294
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	10/6/2023 9:28:02 PM	A100294
Sulfate	31	0.50		mg/L	1	10/6/2023 9:28:02 PM	A100294
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	580	10		µmhos/c	1	10/12/2023 7:27:02 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	170.9	20.00		mg/L Ca	1	10/12/2023 7:27:02 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 7:27:02 PM	B100435
Total Alkalinity (as CaCO3)	170.9	20.00		mg/L Ca	1	10/12/2023 7:27:02 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	396	100	D	mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	80	1.0		mg/L	1	10/12/2023 1:55:37 PM	B100429
Magnesium	12	1.0		mg/L	1	10/12/2023 1:55:37 PM	B100429
Potassium	1.9	1.0		mg/L	1	10/12/2023 1:55:37 PM	B100429
Sodium	18	1.0		mg/L	1	10/12/2023 1:55:37 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-3

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 9:55:00 AM

**Lab ID:** 2310374-003

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Fluoride	ND	0.10		mg/L	1	10/6/2023 9:52:50 PM	A100294
Chloride	69	10		mg/L	20	10/17/2023 1:35:42 AM	A100500
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	10/6/2023 9:52:50 PM	A100294
Bromide	0.17	0.10		mg/L	1	10/6/2023 9:52:50 PM	A100294
Nitrogen, Nitrate (As N)	0.38	0.10		mg/L	1	10/6/2023 9:52:50 PM	A100294
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	10/6/2023 9:52:50 PM	A100294
Sulfate	46	10		mg/L	20	10/17/2023 1:35:42 AM	A100500
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	720	10		µmhos/c	1	10/12/2023 7:37:15 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	211.9	20.00		mg/L Ca	1	10/12/2023 7:37:15 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 7:37:15 PM	B100435
Total Alkalinity (as CaCO3)	211.9	20.00		mg/L Ca	1	10/12/2023 7:37:15 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	428	50.0		mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	98	1.0		mg/L	1	10/12/2023 1:59:35 PM	B100429
Magnesium	11	1.0		mg/L	1	10/12/2023 1:59:35 PM	B100429
Potassium	1.7	1.0		mg/L	1	10/12/2023 1:59:35 PM	B100429
Sodium	39	1.0		mg/L	1	10/12/2023 1:59:35 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-4

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 9:50:00 AM

**Lab ID:** 2310374-004

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Fluoride	ND	0.10		mg/L	1	10/7/2023 12:40:25 PM	R100302
Chloride	ND	0.50		mg/L	1	10/7/2023 12:40:25 PM	R100302
Nitrogen, Nitrite (As N)	ND	0.10	H	mg/L	1	10/7/2023 12:40:25 PM	R100302
Bromide	ND	0.10		mg/L	1	10/7/2023 12:40:25 PM	R100302
Nitrogen, Nitrate (As N)	ND	0.10	H	mg/L	1	10/7/2023 12:40:25 PM	R100302
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/7/2023 12:40:25 PM	R100302
Sulfate	ND	0.50		mg/L	1	10/7/2023 12:40:25 PM	R100302
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	ND	10		µmhos/c	1	10/12/2023 7:48:59 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	ND	20.00		mg/L Ca	1	10/12/2023 7:48:59 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 7:48:59 PM	B100435
Total Alkalinity (as CaCO3)	ND	20.00		mg/L Ca	1	10/12/2023 7:48:59 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	ND	50.0		mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	ND	1.0		mg/L	1	10/12/2023 2:08:23 PM	B100429
Magnesium	ND	1.0		mg/L	1	10/12/2023 2:08:23 PM	B100429
Potassium	ND	1.0		mg/L	1	10/12/2023 2:08:23 PM	B100429
Sodium	ND	1.0		mg/L	1	10/12/2023 2:08:23 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-5

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 10:25:00 AM

**Lab ID:** 2310374-005

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Fluoride	0.22	0.10		mg/L	1	10/7/2023 12:52:50 PM	R100302
Chloride	8.1	0.50		mg/L	1	10/7/2023 12:52:50 PM	R100302
Nitrogen, Nitrite (As N)	ND	0.10	H	mg/L	1	10/7/2023 12:52:50 PM	R100302
Bromide	0.13	0.10		mg/L	1	10/7/2023 12:52:50 PM	R100302
Nitrogen, Nitrate (As N)	0.77	0.10	H	mg/L	1	10/7/2023 12:52:50 PM	R100302
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/7/2023 12:52:50 PM	R100302
Sulfate	44	0.50		mg/L	1	10/7/2023 12:52:50 PM	R100302
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	310	10		µmhos/c	1	10/12/2023 7:54:26 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	98.32	20.00		mg/L Ca	1	10/12/2023 7:54:26 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 7:54:26 PM	B100435
Total Alkalinity (as CaCO3)	98.32	20.00		mg/L Ca	1	10/12/2023 7:54:26 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	196	50.0		mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	32	1.0		mg/L	1	10/12/2023 2:11:53 PM	B100429
Magnesium	3.8	1.0		mg/L	1	10/12/2023 2:11:53 PM	B100429
Potassium	1.0	1.0		mg/L	1	10/12/2023 2:11:53 PM	B100429
Sodium	27	1.0		mg/L	1	10/12/2023 2:11:53 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-6

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 10:50:00 AM

**Lab ID:** 2310374-006

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Fluoride	ND	1.0		mg/L	10	10/7/2023 1:05:15 PM	R100302
Chloride	39	5.0		mg/L	10	10/7/2023 1:05:15 PM	R100302
Nitrogen, Nitrite (As N)	ND	1.0	H	mg/L	10	10/7/2023 1:05:15 PM	R100302
Bromide	ND	1.0		mg/L	10	10/7/2023 1:05:15 PM	R100302
Nitrogen, Nitrate (As N)	2.9	1.0	H	mg/L	10	10/7/2023 1:05:15 PM	R100302
Phosphorus, Orthophosphate (As P)	ND	5.0	H	mg/L	10	10/7/2023 1:05:15 PM	R100302
Sulfate	25	5.0		mg/L	10	10/7/2023 1:05:15 PM	R100302
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	540	10		µmhos/c	1	10/12/2023 8:03:14 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	171.8	20.00		mg/L Ca	1	10/12/2023 8:03:14 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 8:03:14 PM	B100435
Total Alkalinity (as CaCO3)	171.8	20.00		mg/L Ca	1	10/12/2023 8:03:14 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	338	50.0		mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	79	1.0		mg/L	1	10/12/2023 2:15:21 PM	B100429
Magnesium	10	1.0		mg/L	1	10/12/2023 2:15:21 PM	B100429
Potassium	1.7	1.0		mg/L	1	10/12/2023 2:15:21 PM	B100429
Sodium	16	1.0		mg/L	1	10/12/2023 2:15:21 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-7

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 12:20:00 PM

**Lab ID:** 2310374-007

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Fluoride	ND	1.0		mg/L	10	10/7/2023 1:17:39 PM	R100302
Chloride	39	5.0		mg/L	10	10/7/2023 1:17:39 PM	R100302
Nitrogen, Nitrite (As N)	ND	1.0	H	mg/L	10	10/7/2023 1:17:39 PM	R100302
Bromide	ND	1.0		mg/L	10	10/7/2023 1:17:39 PM	R100302
Nitrogen, Nitrate (As N)	3.7	1.0	H	mg/L	10	10/7/2023 1:17:39 PM	R100302
Phosphorus, Orthophosphate (As P)	ND	5.0	H	mg/L	10	10/7/2023 1:17:39 PM	R100302
Sulfate	73	5.0		mg/L	10	10/7/2023 1:17:39 PM	R100302
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	610	10		µmhos/c	1	10/12/2023 8:13:32 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	163.4	20.00		mg/L Ca	1	10/12/2023 8:13:32 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 8:13:32 PM	B100435
Total Alkalinity (as CaCO3)	163.4	20.00		mg/L Ca	1	10/12/2023 8:13:32 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	385	50.0		mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	85	1.0		mg/L	1	10/12/2023 2:18:44 PM	B100429
Magnesium	9.9	1.0		mg/L	1	10/12/2023 2:18:44 PM	B100429
Potassium	2.4	1.0		mg/L	1	10/12/2023 2:18:44 PM	B100429
Sodium	30	1.0		mg/L	1	10/12/2023 2:18:44 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2310374

Date Reported: 11/6/2023

**CLIENT:** Daniel B. Stephens & Assoc.

**Client Sample ID:** LCLC-8

**Project:** LCLC domestic Well Sampling

**Collection Date:** 10/5/2023 12:35:00 PM

**Lab ID:** 2310374-008

**Matrix:** GROUNDWA

**Received Date:** 10/6/2023 3:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Fluoride	ND	0.50		mg/L	5	10/7/2023 1:30:03 PM	R100302
Chloride	9.7	2.5		mg/L	5	10/7/2023 1:30:03 PM	R100302
Nitrogen, Nitrite (As N)	ND	0.50	H	mg/L	5	10/7/2023 1:30:03 PM	R100302
Bromide	ND	0.50		mg/L	5	10/7/2023 1:30:03 PM	R100302
Nitrogen, Nitrate (As N)	1.4	0.50	H	mg/L	5	10/7/2023 1:30:03 PM	R100302
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	10/7/2023 1:30:03 PM	R100302
Sulfate	29	2.5		mg/L	5	10/7/2023 1:30:03 PM	R100302
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>RBC</b>
Conductivity	350	10		µmhos/c	1	10/12/2023 8:27:45 PM	R100435
<b>SM2320B: ALKALINITY</b>							Analyst: <b>RBC</b>
Bicarbonate (As CaCO3)	118.6	20.00		mg/L Ca	1	10/12/2023 8:27:45 PM	B100435
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	10/12/2023 8:27:45 PM	B100435
Total Alkalinity (as CaCO3)	118.6	20.00		mg/L Ca	1	10/12/2023 8:27:45 PM	B100435
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>MCA</b>
Total Dissolved Solids	208	50.0		mg/L	1	10/11/2023 2:20:00 PM	78055
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JRR</b>
Calcium	41	1.0		mg/L	1	10/12/2023 2:22:09 PM	B100429
Magnesium	4.1	1.0		mg/L	1	10/12/2023 2:22:09 PM	B100429
Potassium	1.4	1.0		mg/L	1	10/12/2023 2:22:09 PM	B100429
Sodium	25	1.0		mg/L	1	10/12/2023 2:22:09 PM	B100429

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Data Submittal  
Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Suite D  
Albuquerque, New Mexico 87109

Generated 11/2/2023 11:39:19 AM

## JOB DESCRIPTION

2310374

## JOB NUMBER

320-105783-1

# Eurofins Sacramento

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

## Authorization



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Authorized for release by  
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(916)374-4344



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# Definitions/Glossary

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
I	Value is EMPC (estimated maximum possible concentration).
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

## 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
CFI	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: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

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## Job ID: 320-105783-1

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### Laboratory: Eurofins Sacramento

#### Narrative

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#### Job Narrative 320-105783-1

#### Receipt

The samples were received on 10/10/2023 9:10 AM. 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 3.9° C.

**LCMS**  
Method QSM B15: 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: 2310374-006C LCLC-6 (320-105783-6).

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/matrix spike duplicate (MS/MSD) associated with preparation batch 320-714316.

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

# Detection Summary

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

## Client Sample ID: 2310374-001C LCLC-1

## Lab Sample ID: 320-105783-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5		1.9	0.22	ng/L	1		QSM B15	Total/NA
Perfluoropentanoic acid (PFPeA)	27		1.9	0.22	ng/L	1		QSM B15	Total/NA
Perfluorohexanoic acid (PFHxA)	19		1.9	0.51	ng/L	1		QSM B15	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.7		1.9	0.45	ng/L	1		QSM B15	Total/NA
Perfluorooctanoic acid (PFOA)	23	M	1.9	0.52	ng/L	1		QSM B15	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.9	0.52	ng/L	1		QSM B15	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17		1.9	0.32	ng/L	1		QSM B15	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.93	J	1.9	0.47	ng/L	1		QSM B15	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	11		1.9	0.35	ng/L	1		QSM B15	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.7		1.9	0.54	ng/L	1		QSM B15	Total/NA

## Client Sample ID: 2310374-002C LCLC-2

## Lab Sample ID: 320-105783-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.4		1.8	0.21	ng/L	1		QSM B15	Total/NA
Perfluoropentanoic acid (PFPeA)	25		1.8	0.21	ng/L	1		QSM B15	Total/NA
Perfluorohexanoic acid (PFHxA)	19		1.8	0.48	ng/L	1		QSM B15	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.9		1.8	0.42	ng/L	1		QSM B15	Total/NA
Perfluorooctanoic acid (PFOA)	24	M	1.8	0.49	ng/L	1		QSM B15	Total/NA
Perfluorononanoic acid (PFNA)	1.2	J	1.8	0.49	ng/L	1		QSM B15	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17		1.8	0.30	ng/L	1		QSM B15	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.94	J	1.8	0.45	ng/L	1		QSM B15	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	10		1.8	0.33	ng/L	1		QSM B15	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.0		1.8	0.51	ng/L	1		QSM B15	Total/NA

## Client Sample ID: 2310374-003C LCLC-3

## Lab Sample ID: 320-105783-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	10		1.7	0.20	ng/L	1		QSM B15	Total/NA
Perfluoropentanoic acid (PFPeA)	33		1.7	0.20	ng/L	1		QSM B15	Total/NA
Perfluorohexanoic acid (PFHxA)	25		1.7	0.47	ng/L	1		QSM B15	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.6		1.7	0.41	ng/L	1		QSM B15	Total/NA
Perfluorooctanoic acid (PFOA)	25	M	1.7	0.47	ng/L	1		QSM B15	Total/NA
Perfluorononanoic acid (PFNA)	4.7		1.7	0.47	ng/L	1		QSM B15	Total/NA
Perfluorodecanoic acid (PFDA)	0.56	J M	1.7	0.28	ng/L	1		QSM B15	Total/NA
Perfluorobutanesulfonic acid (PFBS)	22		1.7	0.29	ng/L	1		QSM B15	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.63	J	1.7	0.43	ng/L	1		QSM B15	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	9.3		1.7	0.32	ng/L	1		QSM B15	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25	M	1.7	0.49	ng/L	1		QSM B15	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.48	J M	1.7	0.44	ng/L	1		QSM B15	Total/NA

## Client Sample ID: 2310374-004C LCLC-4

## Lab Sample ID: 320-105783-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	1.8	M	1.7	0.48	ng/L	1		QSM B15	Total/NA

## Client Sample ID: 2310374-005C LCLC-5

## Lab Sample ID: 320-105783-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	1.8	M	1.8	0.51	ng/L	1		QSM B15	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

## Client Sample ID: 2310374-006C LCLC-6

## Lab Sample ID: 320-105783-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.5		1.7	0.21	ng/L	1		QSM B15	Total/NA
Perfluoropentanoic acid (PFPeA)	8.3		1.7	0.21	ng/L	1		QSM B15	Total/NA
Perfluorohexanoic acid (PFHxA)	8.8		1.7	0.47	ng/L	1		QSM B15	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.7		1.7	0.41	ng/L	1		QSM B15	Total/NA
Perfluorooctanoic acid (PFOA)	14	M	1.7	0.48	ng/L	1		QSM B15	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.3		1.7	0.29	ng/L	1		QSM B15	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.1		1.7	0.44	ng/L	1		QSM B15	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	9.9		1.7	0.33	ng/L	1		QSM B15	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.4	I	1.7	0.50	ng/L	1		QSM B15	Total/NA
PFMPA	0.35	J	1.7	0.24	ng/L	1		QSM B15	Total/NA

## Client Sample ID: 2310374-007C LCLC-7

## Lab Sample ID: 320-105783-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.0	J M	1.8	0.22	ng/L	1		QSM B15	Total/NA
Perfluoropentanoic acid (PFPeA)	2.8		1.8	0.22	ng/L	1		QSM B15	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		1.8	0.50	ng/L	1		QSM B15	Total/NA
Perfluorooctanoic acid (PFOA)	2.1	M	1.8	0.51	ng/L	1		QSM B15	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.54	J	1.8	0.31	ng/L	1		QSM B15	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.52	J M	1.8	0.34	ng/L	1		QSM B15	Total/NA

## Client Sample ID: 2310374-008C LCLC-8

## Lab Sample ID: 320-105783-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.31	J M	1.8	0.21	ng/L	1		QSM B15	Total/NA
Perfluoropentanoic acid (PFPeA)	0.60	J M	1.8	0.21	ng/L	1		QSM B15	Total/NA
Perfluorohexanoic acid (PFHxA)	0.70	J M	1.8	0.49	ng/L	1		QSM B15	Total/NA
Perfluorooctanoic acid (PFOA)	1.9	M	1.8	0.50	ng/L	1		QSM B15	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.42	J M	1.8	0.30	ng/L	1		QSM B15	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.39	J M	1.8	0.34	ng/L	1		QSM B15	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-001C LCLC-1**

**Lab Sample ID: 320-105783-1**

Date Collected: 10/05/23 09:20

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5		1.9	0.22	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluoropentanoic acid (PFPeA)	27		1.9	0.22	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorohexanoic acid (PFHxA)	19		1.9	0.51	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluoroheptanoic acid (PFHpA)	4.7		1.9	0.45	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorooctanoic acid (PFOA)	23 M		1.9	0.52	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorononanoic acid (PFNA)	1.4 J		1.9	0.52	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorodecanoic acid (PFDA)	0.93 U M		1.9	0.31	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluoroundecanoic acid (PFUnA)	1.4 U		1.9	0.68	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorododecanoic acid (PFDoA)	0.93 U		1.9	0.39	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorotridecanoic acid (PFTrDA)	1.4 U M		1.9	0.64	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorotetradecanoic acid (PFTeA)	1.4 U		1.9	0.47	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorobutanesulfonic acid (PFBS)	17		1.9	0.32	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluoropentanesulfonic acid (PFPeS)	0.93 J		1.9	0.47	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorohexanesulfonic acid (PFHxS)	11		1.9	0.35	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluoroheptanesulfonic acid (PFHpS)	1.4 U		1.9	0.66	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorooctanesulfonic acid (PFOS)	5.7		1.9	0.54	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorononanesulfonic acid (PFNS)	1.4 U		1.9	0.61	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorodecanesulfonic acid (PFDS)	1.4 U		1.9	0.51	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorododecanesulfonic acid (PFDoS)	2.8 U		3.7	0.79	ng/L		10/19/23 12:32	11/01/23 04:26	1
Perfluorooctanesulfonamide (FOSA)	1.4 U M		1.9	0.48	ng/L		10/19/23 12:32	11/01/23 04:26	1
NMeFOSAA	0.93 U		4.6	0.43	ng/L		10/19/23 12:32	11/01/23 04:26	1
NEtFOSAA	0.93 U		4.6	0.32	ng/L		10/19/23 12:32	11/01/23 04:26	1
4:2 FTS	0.93 U		1.9	0.33	ng/L		10/19/23 12:32	11/01/23 04:26	1
6:2 FTS	0.93 U M		4.6	0.35	ng/L		10/19/23 12:32	11/01/23 04:26	1
8:2 FTS	1.4 U		1.9	0.57	ng/L		10/19/23 12:32	11/01/23 04:26	1
NEtFOSA	1.4 U		1.9	0.69	ng/L		10/19/23 12:32	11/01/23 04:26	1
NMeFOSA	1.4 U		1.9	0.69	ng/L		10/19/23 12:32	11/01/23 04:26	1
NMeFOSE	0.93 U		3.7	0.45	ng/L		10/19/23 12:32	11/01/23 04:26	1
NEtFOSE	1.4 U		1.9	0.67	ng/L		10/19/23 12:32	11/01/23 04:26	1
9CI-PF3ONS	0.93 U		1.9	0.39	ng/L		10/19/23 12:32	11/01/23 04:26	1
HFPO-DA (GenX)	1.4 U		3.7	0.64	ng/L		10/19/23 12:32	11/01/23 04:26	1
11CI-PF3OUdS	0.93 U		1.9	0.45	ng/L		10/19/23 12:32	11/01/23 04:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.4 U M		1.9	0.47	ng/L		10/19/23 12:32	11/01/23 04:26	1
3:3 FTCA	0.93 U		1.9	0.40	ng/L		10/19/23 12:32	11/01/23 04:26	1
5:3 FTCA	0.93 U		1.9	0.31	ng/L		10/19/23 12:32	11/01/23 04:26	1
7:3 FTCA	1.4 U		1.9	0.51	ng/L		10/19/23 12:32	11/01/23 04:26	1
NFDHA	1.4 U		1.9	0.57	ng/L		10/19/23 12:32	11/01/23 04:26	1
PFMBA	0.93 U		1.9	0.24	ng/L		10/19/23 12:32	11/01/23 04:26	1
PFMPA	0.93 U		1.9	0.26	ng/L		10/19/23 12:32	11/01/23 04:26	1
PFEESA	0.93 U		1.9	0.27	ng/L		10/19/23 12:32	11/01/23 04:26	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C8 FOSA	89		50 - 150				10/19/23 12:32	11/01/23 04:26	1
13C4 PFBA	97		50 - 150				10/19/23 12:32	11/01/23 04:26	1
13C5 PFPeA	99		50 - 150				10/19/23 12:32	11/01/23 04:26	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-001C LCLC-1**

**Lab Sample ID: 320-105783-1**

Date Collected: 10/05/23 09:20

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C4 PFHpA	107		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C4 PFOA	101		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C5 PFNA	108		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C2 PFDA	98		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C2 PFUnA	89		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C2 PFDoA	86		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C2 PFTeDA	82		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C3 PFBS	98		50 - 150	10/19/23 12:32	11/01/23 04:26	1
18O2 PFHxS	98		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C4 PFOS	101		50 - 150	10/19/23 12:32	11/01/23 04:26	1
d3-NMeFOSAA	88		50 - 150	10/19/23 12:32	11/01/23 04:26	1
d5-NEtFOSAA	97		50 - 150	10/19/23 12:32	11/01/23 04:26	1
M2-4:2 FTS	91		50 - 150	10/19/23 12:32	11/01/23 04:26	1
M2-6:2 FTS	101		50 - 150	10/19/23 12:32	11/01/23 04:26	1
M2-8:2 FTS	91		50 - 150	10/19/23 12:32	11/01/23 04:26	1
d-N-MeFOSA-M	63		50 - 150	10/19/23 12:32	11/01/23 04:26	1
d-N-EtFOSA-M	60		50 - 150	10/19/23 12:32	11/01/23 04:26	1
d7-N-MeFOSE-M	71		50 - 150	10/19/23 12:32	11/01/23 04:26	1
d9-N-EtFOSE-M	68		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C3 HFPO-DA	95		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C-6:2 FTCA	89		50 - 150	10/19/23 12:32	11/01/23 04:26	1
13C-8:2 FTCA	89		50 - 150	10/19/23 12:32	11/01/23 04:26	1

**Client Sample ID: 2310374-002C LCLC-2**

**Lab Sample ID: 320-105783-2**

Date Collected: 10/05/23 09:30

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.4		1.8	0.21	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluoropentanoic acid (PFPeA)	25		1.8	0.21	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorohexanoic acid (PFHxA)	19		1.8	0.48	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluoroheptanoic acid (PFHpA)	4.9		1.8	0.42	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorooctanoic acid (PFOA)	24 M		1.8	0.49	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorononanoic acid (PFNA)	1.2 J		1.8	0.49	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorodecanoic acid (PFDA)	0.88 U		1.8	0.29	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluoroundecanoic acid (PFUnA)	1.3 U		1.8	0.64	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorododecanoic acid (PFDoA)	0.88 U		1.8	0.37	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorotridecanoic acid (PFTTrDA)	1.3 U		1.8	0.61	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorotetradecanoic acid (PFTeA)	1.3 U		1.8	0.45	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorobutanesulfonic acid (PFBS)	17		1.8	0.30	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluoropentanesulfonic acid (PFPeS)	0.94 J		1.8	0.45	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorohexanesulfonic acid (PFHxS)	10		1.8	0.33	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluoroheptanesulfonic acid (PFHpS)	1.3 U		1.8	0.62	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorooctanesulfonic acid (PFOS)	6.0		1.8	0.51	ng/L		10/19/23 12:32	11/01/23 04:37	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-002C LCLC-2**

**Lab Sample ID: 320-105783-2**

Date Collected: 10/05/23 09:30

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	1.3	U	1.8	0.58	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorodecanesulfonic acid (PFDS)	1.3	U	1.8	0.48	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorododecanesulfonic acid (PFDoS)	2.6	U	3.5	0.75	ng/L		10/19/23 12:32	11/01/23 04:37	1
Perfluorooctanesulfonamide (FOSA)	1.3	U	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 04:37	1
NMeFOSAA	0.88	U	4.4	0.40	ng/L		10/19/23 12:32	11/01/23 04:37	1
NEtFOSAA	0.88	U	4.4	0.30	ng/L		10/19/23 12:32	11/01/23 04:37	1
4:2 FTS	0.88	U	1.8	0.32	ng/L		10/19/23 12:32	11/01/23 04:37	1
6:2 FTS	0.88	U	4.4	0.33	ng/L		10/19/23 12:32	11/01/23 04:37	1
8:2 FTS	1.3	U	1.8	0.54	ng/L		10/19/23 12:32	11/01/23 04:37	1
NEtFOSA	1.3	U M	1.8	0.65	ng/L		10/19/23 12:32	11/01/23 04:37	1
NMeFOSA	1.3	U	1.8	0.65	ng/L		10/19/23 12:32	11/01/23 04:37	1
NMeFOSE	0.88	U	3.5	0.42	ng/L		10/19/23 12:32	11/01/23 04:37	1
NEtFOSE	1.3	U	1.8	0.63	ng/L		10/19/23 12:32	11/01/23 04:37	1
9Cl-PF3ONS	0.88	U	1.8	0.37	ng/L		10/19/23 12:32	11/01/23 04:37	1
HFPO-DA (GenX)	1.3	U	3.5	0.61	ng/L		10/19/23 12:32	11/01/23 04:37	1
11Cl-PF3OUdS	0.88	U	1.8	0.42	ng/L		10/19/23 12:32	11/01/23 04:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.3	U	1.8	0.45	ng/L		10/19/23 12:32	11/01/23 04:37	1
3:3 FTCA	0.88	U	1.8	0.38	ng/L		10/19/23 12:32	11/01/23 04:37	1
5:3 FTCA	0.88	U	1.8	0.29	ng/L		10/19/23 12:32	11/01/23 04:37	1
7:3 FTCA	1.3	U	1.8	0.48	ng/L		10/19/23 12:32	11/01/23 04:37	1
NFDHA	1.3	U	1.8	0.54	ng/L		10/19/23 12:32	11/01/23 04:37	1
PFMBA	0.88	U	1.8	0.23	ng/L		10/19/23 12:32	11/01/23 04:37	1
PFMPA	0.88	U	1.8	0.25	ng/L		10/19/23 12:32	11/01/23 04:37	1
PFEESA	0.88	U	1.8	0.25	ng/L		10/19/23 12:32	11/01/23 04:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	83		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C4 PFBA	98		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C5 PFPeA	100		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C2 PFHxA	101		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C4 PFHpA	102		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C4 PFOA	94		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C5 PFNA	94		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C2 PFDA	91		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C2 PFUnA	82		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C2 PFDoA	80		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C2 PFTeDA	82		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C3 PFBS	99		50 - 150	10/19/23 12:32	11/01/23 04:37	1
18O2 PFHxS	98		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C4 PFOS	90		50 - 150	10/19/23 12:32	11/01/23 04:37	1
d3-NMeFOSAA	86		50 - 150	10/19/23 12:32	11/01/23 04:37	1
d5-NEtFOSAA	90		50 - 150	10/19/23 12:32	11/01/23 04:37	1
M2-4:2 FTS	90		50 - 150	10/19/23 12:32	11/01/23 04:37	1
M2-6:2 FTS	93		50 - 150	10/19/23 12:32	11/01/23 04:37	1
M2-8:2 FTS	80		50 - 150	10/19/23 12:32	11/01/23 04:37	1
d-N-MeFOSA-M	65		50 - 150	10/19/23 12:32	11/01/23 04:37	1
d-N-EtFOSA-M	64		50 - 150	10/19/23 12:32	11/01/23 04:37	1
d7-N-MeFOSE-M	79		50 - 150	10/19/23 12:32	11/01/23 04:37	1
d9-N-EtFOSE-M	73		50 - 150	10/19/23 12:32	11/01/23 04:37	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-002C LCLC-2**

**Lab Sample ID: 320-105783-2**

Date Collected: 10/05/23 09:30

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C-6:2 FTCA	97		50 - 150	10/19/23 12:32	11/01/23 04:37	1
13C-8:2 FTCA	71		50 - 150	10/19/23 12:32	11/01/23 04:37	1

**Client Sample ID: 2310374-003C LCLC-3**

**Lab Sample ID: 320-105783-3**

Date Collected: 10/05/23 09:55

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	10		1.7	0.20	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluoropentanoic acid (PFPeA)	33		1.7	0.20	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorohexanoic acid (PFHxA)	25		1.7	0.47	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluoroheptanoic acid (PFHpA)	5.6		1.7	0.41	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorooctanoic acid (PFOA)	25 M		1.7	0.47	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorononanoic acid (PFNA)	4.7		1.7	0.47	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorodecanoic acid (PFDA)	0.56 J M		1.7	0.28	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluoroundecanoic acid (PFUnA)	1.3 U M		1.7	0.62	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorododecanoic acid (PFDoA)	0.85 U		1.7	0.36	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorotridecanoic acid (PFTTrDA)	1.3 U		1.7	0.58	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorotetradecanoic acid (PFTeA)	1.3 U		1.7	0.43	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorobutanesulfonic acid (PFBS)	22		1.7	0.29	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluoropentanesulfonic acid (PFPeS)	0.63 J		1.7	0.43	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorohexanesulfonic acid (PFHxS)	9.3		1.7	0.32	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluoroheptanesulfonic acid (PFHpS)	1.3 U		1.7	0.60	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorooctanesulfonic acid (PFOS)	25 M		1.7	0.49	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorononanesulfonic acid (PFNS)	1.3 U		1.7	0.56	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorodecanesulfonic acid (PFDS)	1.3 U		1.7	0.47	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorododecanesulfonic acid (PFDoS)	2.5 U		3.4	0.72	ng/L		10/19/23 12:32	11/01/23 04:49	1
Perfluorooctanesulfonamide (FOSA)	0.48 J M		1.7	0.44	ng/L		10/19/23 12:32	11/01/23 04:49	1
NMeFOSAA	0.85 U		4.2	0.39	ng/L		10/19/23 12:32	11/01/23 04:49	1
NEtFOSAA	0.85 U		4.2	0.29	ng/L		10/19/23 12:32	11/01/23 04:49	1
4:2 FTS	0.85 U		1.7	0.30	ng/L		10/19/23 12:32	11/01/23 04:49	1
6:2 FTS	0.85 U		4.2	0.32	ng/L		10/19/23 12:32	11/01/23 04:49	1
8:2 FTS	1.3 U		1.7	0.52	ng/L		10/19/23 12:32	11/01/23 04:49	1
NEtFOSA	1.3 U M		1.7	0.63	ng/L		10/19/23 12:32	11/01/23 04:49	1
NMeFOSA	1.3 U		1.7	0.63	ng/L		10/19/23 12:32	11/01/23 04:49	1
NMeFOSE	0.85 U		3.4	0.41	ng/L		10/19/23 12:32	11/01/23 04:49	1
NEtFOSE	1.3 U		1.7	0.61	ng/L		10/19/23 12:32	11/01/23 04:49	1
9Cl-PF3ONS	0.85 U		1.7	0.36	ng/L		10/19/23 12:32	11/01/23 04:49	1
HFPO-DA (GenX)	1.3 U		3.4	0.58	ng/L		10/19/23 12:32	11/01/23 04:49	1
11Cl-PF3OUdS	0.85 U M		1.7	0.41	ng/L		10/19/23 12:32	11/01/23 04:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.3 U		1.7	0.43	ng/L		10/19/23 12:32	11/01/23 04:49	1
3:3 FTCA	0.85 U		1.7	0.36	ng/L		10/19/23 12:32	11/01/23 04:49	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-003C LCLC-3**

**Lab Sample ID: 320-105783-3**

Date Collected: 10/05/23 09:55

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
5:3 FTCA	0.85	U	1.7	0.28	ng/L		10/19/23 12:32	11/01/23 04:49	1
7:3 FTCA	1.3	U	1.7	0.47	ng/L		10/19/23 12:32	11/01/23 04:49	1
NFDHA	1.3	U	1.7	0.52	ng/L		10/19/23 12:32	11/01/23 04:49	1
PFMBA	0.85	U	1.7	0.22	ng/L		10/19/23 12:32	11/01/23 04:49	1
PFMPA	0.85	U M	1.7	0.24	ng/L		10/19/23 12:32	11/01/23 04:49	1
PFEESA	0.85	U	1.7	0.25	ng/L		10/19/23 12:32	11/01/23 04:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	81		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C4 PFBA	94		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C5 PFPeA	92		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C2 PFHxA	94		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C4 PFHpA	104		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C4 PFOA	99		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C5 PFNA	94		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C2 PFDA	98		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C2 PFUnA	84		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C2 PFDoA	84		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C2 PFTeDA	78		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C3 PFBS	93		50 - 150				10/19/23 12:32	11/01/23 04:49	1
18O2 PFHxS	91		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C4 PFOS	86		50 - 150				10/19/23 12:32	11/01/23 04:49	1
d3-NMeFOSAA	86		50 - 150				10/19/23 12:32	11/01/23 04:49	1
d5-NEtFOSAA	97		50 - 150				10/19/23 12:32	11/01/23 04:49	1
M2-4:2 FTS	94		50 - 150				10/19/23 12:32	11/01/23 04:49	1
M2-6:2 FTS	91		50 - 150				10/19/23 12:32	11/01/23 04:49	1
M2-8:2 FTS	89		50 - 150				10/19/23 12:32	11/01/23 04:49	1
d-N-MeFOSA-M	66		50 - 150				10/19/23 12:32	11/01/23 04:49	1
d-N-EtFOSA-M	66		50 - 150				10/19/23 12:32	11/01/23 04:49	1
d7-N-MeFOSE-M	74		50 - 150				10/19/23 12:32	11/01/23 04:49	1
d9-N-EtFOSE-M	78		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C3 HFPO-DA	90		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C-6:2 FTCA	94		50 - 150				10/19/23 12:32	11/01/23 04:49	1
13C-8:2 FTCA	90		50 - 150				10/19/23 12:32	11/01/23 04:49	1

**Client Sample ID: 2310374-004C LCLC-4**

**Lab Sample ID: 320-105783-4**

Date Collected: 10/05/23 09:50

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.43	U	1.7	0.21	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluoropentanoic acid (PFPeA)	0.43	U	1.7	0.21	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorohexanoic acid (PFHxA)	1.3	U	1.7	0.48	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluoroheptanoic acid (PFHpA)	0.86	U M	1.7	0.41	ng/L		10/19/23 12:32	11/01/23 05:00	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>1.8</b>	<b>M</b>	1.7	0.48	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorononanoic acid (PFNA)	1.3	U	1.7	0.48	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorodecanoic acid (PFDA)	0.86	U	1.7	0.29	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluoroundecanoic acid (PFUnA)	1.3	U	1.7	0.63	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorododecanoic acid (PFDoA)	0.86	U	1.7	0.36	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorotridecanoic acid (PFTTrDA)	1.3	U	1.7	0.60	ng/L		10/19/23 12:32	11/01/23 05:00	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-004C LCLC-4**

**Lab Sample ID: 320-105783-4**

Date Collected: 10/05/23 09:50

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	1.3	U	1.7	0.44	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorobutanesulfonic acid (PFBS)	0.86	U	1.7	0.29	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluoropentanesulfonic acid (PFPeS)	1.3	U	1.7	0.44	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorohexanesulfonic acid (PFHxS)	0.86	U M	1.7	0.33	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluoroheptanesulfonic acid (PFHpS)	1.3	U	1.7	0.61	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorooctanesulfonic acid (PFOS)	1.3	U	1.7	0.50	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorononanesulfonic acid (PFNS)	1.3	U	1.7	0.57	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorodecanesulfonic acid (PFDS)	1.3	U	1.7	0.48	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorododecanesulfonic acid (PFDoS)	2.6	U	3.5	0.73	ng/L		10/19/23 12:32	11/01/23 05:00	1
Perfluorooctanesulfonamide (FOSA)	1.3	U	1.7	0.45	ng/L		10/19/23 12:32	11/01/23 05:00	1
NMeFOSAA	0.86	U	4.3	0.40	ng/L		10/19/23 12:32	11/01/23 05:00	1
NEtFOSAA	0.86	U	4.3	0.29	ng/L		10/19/23 12:32	11/01/23 05:00	1
4:2 FTS	0.86	U	1.7	0.31	ng/L		10/19/23 12:32	11/01/23 05:00	1
6:2 FTS	0.86	U M	4.3	0.33	ng/L		10/19/23 12:32	11/01/23 05:00	1
8:2 FTS	1.3	U	1.7	0.54	ng/L		10/19/23 12:32	11/01/23 05:00	1
NEtFOSA	1.3	U M	1.7	0.64	ng/L		10/19/23 12:32	11/01/23 05:00	1
NMeFOSA	1.3	U	1.7	0.64	ng/L		10/19/23 12:32	11/01/23 05:00	1
NMeFOSE	0.86	U	3.5	0.41	ng/L		10/19/23 12:32	11/01/23 05:00	1
NEtFOSE	1.3	U	1.7	0.62	ng/L		10/19/23 12:32	11/01/23 05:00	1
9CI-PF3ONS	0.86	U	1.7	0.36	ng/L		10/19/23 12:32	11/01/23 05:00	1
HFPO-DA (GenX)	1.3	U	3.5	0.60	ng/L		10/19/23 12:32	11/01/23 05:00	1
11CI-PF3OUdS	0.86	U M	1.7	0.41	ng/L		10/19/23 12:32	11/01/23 05:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.3	U	1.7	0.44	ng/L		10/19/23 12:32	11/01/23 05:00	1
3:3 FTCA	0.86	U	1.7	0.37	ng/L		10/19/23 12:32	11/01/23 05:00	1
5:3 FTCA	0.86	U	1.7	0.29	ng/L		10/19/23 12:32	11/01/23 05:00	1
7:3 FTCA	1.3	U	1.7	0.48	ng/L		10/19/23 12:32	11/01/23 05:00	1
NFDHA	1.3	U	1.7	0.54	ng/L		10/19/23 12:32	11/01/23 05:00	1
PFMBA	0.86	U	1.7	0.22	ng/L		10/19/23 12:32	11/01/23 05:00	1
PFMPA	0.86	U	1.7	0.24	ng/L		10/19/23 12:32	11/01/23 05:00	1
PFEESA	0.86	U	1.7	0.25	ng/L		10/19/23 12:32	11/01/23 05:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	90		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C4 PFBA	103		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C5 PFPeA	105		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C2 PFHxA	105		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C4 PFHpA	106		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C4 PFOA	102		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C5 PFNA	98		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C2 PFDA	96		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C2 PFUnA	102		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C2 PFDoA	97		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C2 PFTeDA	87		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C3 PFBS	100		50 - 150	10/19/23 12:32	11/01/23 05:00	1
18O2 PFHxS	93		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C4 PFOS	96		50 - 150	10/19/23 12:32	11/01/23 05:00	1
d3-NMeFOSAA	94		50 - 150	10/19/23 12:32	11/01/23 05:00	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-004C LCLC-4**

**Lab Sample ID: 320-105783-4**

Date Collected: 10/05/23 09:50

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		50 - 150	10/19/23 12:32	11/01/23 05:00	1
M2-4:2 FTS	95		50 - 150	10/19/23 12:32	11/01/23 05:00	1
M2-6:2 FTS	104		50 - 150	10/19/23 12:32	11/01/23 05:00	1
M2-8:2 FTS	93		50 - 150	10/19/23 12:32	11/01/23 05:00	1
d-N-MeFOSA-M	69		50 - 150	10/19/23 12:32	11/01/23 05:00	1
d-N-EtFOSA-M	66		50 - 150	10/19/23 12:32	11/01/23 05:00	1
d7-N-MeFOSE-M	79		50 - 150	10/19/23 12:32	11/01/23 05:00	1
d9-N-EtFOSE-M	81		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C3 HFPO-DA	100		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C-6:2 FTCA	97		50 - 150	10/19/23 12:32	11/01/23 05:00	1
13C-8:2 FTCA	94		50 - 150	10/19/23 12:32	11/01/23 05:00	1

**Client Sample ID: 2310374-005C LCLC-5**

**Lab Sample ID: 320-105783-5**

Date Collected: 10/05/23 10:25

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.45	U M	1.8	0.22	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluoropentanoic acid (PFPeA)	0.45	U	1.8	0.22	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorohexanoic acid (PFHxA)	1.4	U	1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluoroheptanoic acid (PFHpA)	0.91	U	1.8	0.43	ng/L		10/19/23 12:32	11/01/23 05:11	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>1.8</b>	<b>M</b>	1.8	0.51	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorononanoic acid (PFNA)	1.4	U	1.8	0.51	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorodecanoic acid (PFDA)	0.91	U M	1.8	0.30	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluoroundecanoic acid (PFUnA)	1.4	U	1.8	0.66	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorododecanoic acid (PFDoA)	0.91	U	1.8	0.38	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorotridecanoic acid (PFTrDA)	1.4	U	1.8	0.62	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorotetradecanoic acid (PFTeA)	1.4	U M	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorobutanesulfonic acid (PFBS)	0.91	U	1.8	0.31	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluoropentanesulfonic acid (PFPeS)	1.4	U	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.91	U	1.8	0.34	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluoroheptanesulfonic acid (PFHpS)	1.4	U	1.8	0.64	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorooctanesulfonic acid (PFOS)	1.4	U	1.8	0.52	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorononanesulfonic acid (PFNS)	1.4	U	1.8	0.60	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorodecanesulfonic acid (PFDS)	1.4	U	1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorododecanesulfonic acid (PFDoS)	2.7	U	3.6	0.77	ng/L		10/19/23 12:32	11/01/23 05:11	1
Perfluorooctanesulfonamide (FOSA)	1.4	U	1.8	0.47	ng/L		10/19/23 12:32	11/01/23 05:11	1
NMeFOSAA	0.91	U	4.5	0.42	ng/L		10/19/23 12:32	11/01/23 05:11	1
NEtFOSAA	0.91	U	4.5	0.31	ng/L		10/19/23 12:32	11/01/23 05:11	1
4:2 FTS	0.91	U	1.8	0.33	ng/L		10/19/23 12:32	11/01/23 05:11	1
6:2 FTS	0.91	U	4.5	0.34	ng/L		10/19/23 12:32	11/01/23 05:11	1
8:2 FTS	1.4	U	1.8	0.56	ng/L		10/19/23 12:32	11/01/23 05:11	1
NEtFOSA	1.4	U M	1.8	0.67	ng/L		10/19/23 12:32	11/01/23 05:11	1
NMeFOSA	1.4	U	1.8	0.67	ng/L		10/19/23 12:32	11/01/23 05:11	1
NMeFOSE	0.91	U	3.6	0.43	ng/L		10/19/23 12:32	11/01/23 05:11	1
NEtFOSE	1.4	U	1.8	0.65	ng/L		10/19/23 12:32	11/01/23 05:11	1
9CI-PF3ONS	0.91	U	1.8	0.38	ng/L		10/19/23 12:32	11/01/23 05:11	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-005C LCLC-5**

**Lab Sample ID: 320-105783-5**

Date Collected: 10/05/23 10:25

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	1.4	U	3.6	0.62	ng/L		10/19/23 12:32	11/01/23 05:11	1
11CI-PF3OUdS	0.91	U	1.8	0.43	ng/L		10/19/23 12:32	11/01/23 05:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.4	U M	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 05:11	1
3:3 FTCA	0.91	U	1.8	0.39	ng/L		10/19/23 12:32	11/01/23 05:11	1
5:3 FTCA	0.91	U	1.8	0.30	ng/L		10/19/23 12:32	11/01/23 05:11	1
7:3 FTCA	1.4	U	1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:11	1
NFDHA	1.4	U	1.8	0.56	ng/L		10/19/23 12:32	11/01/23 05:11	1
PFMBA	0.91	U	1.8	0.24	ng/L		10/19/23 12:32	11/01/23 05:11	1
PFMPA	0.91	U M	1.8	0.25	ng/L		10/19/23 12:32	11/01/23 05:11	1
PFEESA	0.91	U M	1.8	0.26	ng/L		10/19/23 12:32	11/01/23 05:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	90		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C4 PFBA	100		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C5 PFPeA	95		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C2 PFHxA	102		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C4 PFHpA	102		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C4 PFOA	103		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C5 PFNA	96		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C2 PFDA	101		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C2 PFUnA	95		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C2 PFDoA	83		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C2 PFTeDA	89		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C3 PFBS	101		50 - 150				10/19/23 12:32	11/01/23 05:11	1
18O2 PFHxS	97		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C4 PFOS	95		50 - 150				10/19/23 12:32	11/01/23 05:11	1
d3-NMeFOSAA	100		50 - 150				10/19/23 12:32	11/01/23 05:11	1
d5-NEtFOSAA	95		50 - 150				10/19/23 12:32	11/01/23 05:11	1
M2-4:2 FTS	98		50 - 150				10/19/23 12:32	11/01/23 05:11	1
M2-6:2 FTS	105		50 - 150				10/19/23 12:32	11/01/23 05:11	1
M2-8:2 FTS	88		50 - 150				10/19/23 12:32	11/01/23 05:11	1
d-N-MeFOSA-M	70		50 - 150				10/19/23 12:32	11/01/23 05:11	1
d-N-EtFOSA-M	67		50 - 150				10/19/23 12:32	11/01/23 05:11	1
d7-N-MeFOSE-M	79		50 - 150				10/19/23 12:32	11/01/23 05:11	1
d9-N-EtFOSE-M	85		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C3 HFPO-DA	98		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C-6:2 FTCA	99		50 - 150				10/19/23 12:32	11/01/23 05:11	1
13C-8:2 FTCA	92		50 - 150				10/19/23 12:32	11/01/23 05:11	1

**Client Sample ID: 2310374-006C LCLC-6**

**Lab Sample ID: 320-105783-6**

Date Collected: 10/05/23 10:50

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.5		1.7	0.21	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluoropentanoic acid (PFPeA)	8.3		1.7	0.21	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorohexanoic acid (PFHxA)	8.8		1.7	0.47	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluoroheptanoic acid (PFHpA)	2.7		1.7	0.41	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorooctanoic acid (PFOA)	14	M	1.7	0.48	ng/L		10/19/23 12:32	11/01/23 05:23	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-006C LCLC-6**

**Lab Sample ID: 320-105783-6**

Date Collected: 10/05/23 10:50

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	1.3	U	1.7	0.48	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorodecanoic acid (PFDA)	0.86	U M	1.7	0.28	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluoroundecanoic acid (PFUnA)	1.3	U	1.7	0.63	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorododecanoic acid (PFDoA)	0.86	U	1.7	0.36	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorotridecanoic acid (PFTrDA)	1.3	U M	1.7	0.59	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorotetradecanoic acid (PFTeA)	1.3	U	1.7	0.44	ng/L		10/19/23 12:32	11/01/23 05:23	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>6.3</b>		1.7	0.29	ng/L		10/19/23 12:32	11/01/23 05:23	1
<b>Perfluoropentanesulfonic acid (PFPeS)</b>	<b>2.1</b>		1.7	0.44	ng/L		10/19/23 12:32	11/01/23 05:23	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>9.9</b>		1.7	0.33	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluoroheptanesulfonic acid (PFHpS)	1.3	U	1.7	0.61	ng/L		10/19/23 12:32	11/01/23 05:23	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>7.4</b>	<b>I</b>	1.7	0.50	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorononanesulfonic acid (PFNS)	1.3	U	1.7	0.57	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorodecanesulfonic acid (PFDS)	1.3	U	1.7	0.47	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorododecanesulfonic acid (PFDoS)	2.6	U	3.4	0.73	ng/L		10/19/23 12:32	11/01/23 05:23	1
Perfluorooctanesulfonamide (FOSA)	1.3	U	1.7	0.45	ng/L		10/19/23 12:32	11/01/23 05:23	1
NMeFOSAA	0.86	U	4.3	0.40	ng/L		10/19/23 12:32	11/01/23 05:23	1
NEtFOSAA	0.86	U	4.3	0.29	ng/L		10/19/23 12:32	11/01/23 05:23	1
4:2 FTS	0.86	U	1.7	0.31	ng/L		10/19/23 12:32	11/01/23 05:23	1
6:2 FTS	0.86	U M	4.3	0.33	ng/L		10/19/23 12:32	11/01/23 05:23	1
8:2 FTS	1.3	U	1.7	0.53	ng/L		10/19/23 12:32	11/01/23 05:23	1
NEtFOSA	1.3	U M	1.7	0.64	ng/L		10/19/23 12:32	11/01/23 05:23	1
NMeFOSA	1.3	U	1.7	0.64	ng/L		10/19/23 12:32	11/01/23 05:23	1
NMeFOSE	0.86	U	3.4	0.41	ng/L		10/19/23 12:32	11/01/23 05:23	1
NEtFOSE	1.3	U	1.7	0.62	ng/L		10/19/23 12:32	11/01/23 05:23	1
9CI-PF3ONS	0.86	U	1.7	0.36	ng/L		10/19/23 12:32	11/01/23 05:23	1
HFPO-DA (GenX)	1.3	U	3.4	0.59	ng/L		10/19/23 12:32	11/01/23 05:23	1
11CI-PF3OUdS	0.86	U	1.7	0.41	ng/L		10/19/23 12:32	11/01/23 05:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.3	U	1.7	0.44	ng/L		10/19/23 12:32	11/01/23 05:23	1
3:3 FTCA	0.86	U	1.7	0.37	ng/L		10/19/23 12:32	11/01/23 05:23	1
5:3 FTCA	0.86	U	1.7	0.28	ng/L		10/19/23 12:32	11/01/23 05:23	1
7:3 FTCA	1.3	U	1.7	0.47	ng/L		10/19/23 12:32	11/01/23 05:23	1
NFDHA	1.3	U	1.7	0.53	ng/L		10/19/23 12:32	11/01/23 05:23	1
PFMBA	0.86	U	1.7	0.22	ng/L		10/19/23 12:32	11/01/23 05:23	1
<b>PFMPA</b>	<b>0.35</b>	<b>J</b>	1.7	0.24	ng/L		10/19/23 12:32	11/01/23 05:23	1
PFEESA	0.86	U M	1.7	0.25	ng/L		10/19/23 12:32	11/01/23 05:23	1

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	88		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C4 PFBA	95		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C5 PFPeA	97		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C2 PFHxA	98		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C4 PFHpA	98		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C4 PFOA	101		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C5 PFNA	97		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C2 PFDA	91		50 - 150	10/19/23 12:32	11/01/23 05:23	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-006C LCLC-6**

**Lab Sample ID: 320-105783-6**

Date Collected: 10/05/23 10:50

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	93		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C2 PFDoA	83		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C2 PFTeDA	82		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C3 PFBS	96		50 - 150	10/19/23 12:32	11/01/23 05:23	1
18O2 PFHxS	96		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C4 PFOS	89		50 - 150	10/19/23 12:32	11/01/23 05:23	1
d3-NMeFOSAA	85		50 - 150	10/19/23 12:32	11/01/23 05:23	1
d5-NEtFOSAA	94		50 - 150	10/19/23 12:32	11/01/23 05:23	1
M2-4:2 FTS	95		50 - 150	10/19/23 12:32	11/01/23 05:23	1
M2-6:2 FTS	94		50 - 150	10/19/23 12:32	11/01/23 05:23	1
M2-8:2 FTS	82		50 - 150	10/19/23 12:32	11/01/23 05:23	1
d-N-MeFOSA-M	66		50 - 150	10/19/23 12:32	11/01/23 05:23	1
d-N-EtFOSA-M	72		50 - 150	10/19/23 12:32	11/01/23 05:23	1
d7-N-MeFOSE-M	79		50 - 150	10/19/23 12:32	11/01/23 05:23	1
d9-N-EtFOSE-M	77		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C3 HFPO-DA	93		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C-6:2 FTCA	97		50 - 150	10/19/23 12:32	11/01/23 05:23	1
13C-8:2 FTCA	91		50 - 150	10/19/23 12:32	11/01/23 05:23	1

**Client Sample ID: 2310374-007C LCLC-7**

**Lab Sample ID: 320-105783-7**

Date Collected: 10/05/23 12:20

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.0	J M	1.8	0.22	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluoropentanoic acid (PFPeA)	2.8		1.8	0.22	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorohexanoic acid (PFHxA)	2.3		1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluoroheptanoic acid (PFHpA)	0.90	U	1.8	0.43	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorooctanoic acid (PFOA)	2.1	M	1.8	0.51	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorononanoic acid (PFNA)	1.4	U	1.8	0.51	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorodecanoic acid (PFDA)	0.90	U M	1.8	0.30	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluoroundecanoic acid (PFUnA)	1.4	U M	1.8	0.66	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorododecanoic acid (PFDoA)	0.90	U	1.8	0.38	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorotridecanoic acid (PFTTrDA)	1.4	U	1.8	0.62	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorotetradecanoic acid (PFTeA)	1.4	U	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorobutanesulfonic acid (PFBS)	0.54	J	1.8	0.31	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluoropentanesulfonic acid (PFPeS)	1.4	U	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorohexanesulfonic acid (PFHxS)	0.52	J M	1.8	0.34	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluoroheptanesulfonic acid (PFHpS)	1.4	U	1.8	0.64	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorooctanesulfonic acid (PFOS)	1.4	U	1.8	0.52	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorononanesulfonic acid (PFNS)	1.4	U	1.8	0.60	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorodecanesulfonic acid (PFDS)	1.4	U	1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorododecanesulfonic acid (PFDoS)	2.7	U	3.6	0.77	ng/L		10/19/23 12:32	11/01/23 05:34	1
Perfluorooctanesulfonamide (FOSA)	1.4	U	1.8	0.47	ng/L		10/19/23 12:32	11/01/23 05:34	1
NMeFOSAA	0.90	U	4.5	0.42	ng/L		10/19/23 12:32	11/01/23 05:34	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-007C LCLC-7**

**Lab Sample ID: 320-105783-7**

**Date Collected: 10/05/23 12:20**

**Matrix: Water**

**Date Received: 10/10/23 09:10**

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	0.90	U	4.5	0.31	ng/L		10/19/23 12:32	11/01/23 05:34	1
4:2 FTS	0.90	U	1.8	0.33	ng/L		10/19/23 12:32	11/01/23 05:34	1
6:2 FTS	0.90	U	4.5	0.34	ng/L		10/19/23 12:32	11/01/23 05:34	1
8:2 FTS	1.4	U	1.8	0.56	ng/L		10/19/23 12:32	11/01/23 05:34	1
NEtFOSA	1.4	U M	1.8	0.67	ng/L		10/19/23 12:32	11/01/23 05:34	1
NMeFOSA	1.4	U	1.8	0.67	ng/L		10/19/23 12:32	11/01/23 05:34	1
NMeFOSE	0.90	U	3.6	0.43	ng/L		10/19/23 12:32	11/01/23 05:34	1
NEtFOSE	1.4	U	1.8	0.65	ng/L		10/19/23 12:32	11/01/23 05:34	1
9CI-PF3ONS	0.90	U	1.8	0.38	ng/L		10/19/23 12:32	11/01/23 05:34	1
HFPO-DA (GenX)	1.4	U	3.6	0.62	ng/L		10/19/23 12:32	11/01/23 05:34	1
11CI-PF3OUdS	0.90	U	1.8	0.43	ng/L		10/19/23 12:32	11/01/23 05:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.4	U M	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 05:34	1
3:3 FTCA	0.90	U	1.8	0.39	ng/L		10/19/23 12:32	11/01/23 05:34	1
5:3 FTCA	0.90	U	1.8	0.30	ng/L		10/19/23 12:32	11/01/23 05:34	1
7:3 FTCA	1.4	U	1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:34	1
NFDHA	1.4	U	1.8	0.56	ng/L		10/19/23 12:32	11/01/23 05:34	1
PFMBA	0.90	U	1.8	0.24	ng/L		10/19/23 12:32	11/01/23 05:34	1
PFMPA	0.90	U	1.8	0.25	ng/L		10/19/23 12:32	11/01/23 05:34	1
PFEESA	0.90	U M	1.8	0.26	ng/L		10/19/23 12:32	11/01/23 05:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	87		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C4 PFBA	97		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C5 PFPeA	100		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C2 PFHxA	103		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C4 PFHpA	98		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C4 PFOA	102		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C5 PFNA	99		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C2 PFDA	101		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C2 PFUnA	95		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C2 PFDoA	87		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C2 PFTeDA	83		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C3 PFBS	100		50 - 150				10/19/23 12:32	11/01/23 05:34	1
18O2 PFHxS	96		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C4 PFOS	91		50 - 150				10/19/23 12:32	11/01/23 05:34	1
d3-NMeFOSAA	93		50 - 150				10/19/23 12:32	11/01/23 05:34	1
d5-NEtFOSAA	95		50 - 150				10/19/23 12:32	11/01/23 05:34	1
M2-4:2 FTS	92		50 - 150				10/19/23 12:32	11/01/23 05:34	1
M2-6:2 FTS	101		50 - 150				10/19/23 12:32	11/01/23 05:34	1
M2-8:2 FTS	83		50 - 150				10/19/23 12:32	11/01/23 05:34	1
d-N-MeFOSA-M	68		50 - 150				10/19/23 12:32	11/01/23 05:34	1
d-N-EtFOSA-M	68		50 - 150				10/19/23 12:32	11/01/23 05:34	1
d7-N-MeFOSE-M	71		50 - 150				10/19/23 12:32	11/01/23 05:34	1
d9-N-EtFOSE-M	73		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C3 HFPO-DA	94		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C-6:2 FTCA	103		50 - 150				10/19/23 12:32	11/01/23 05:34	1
13C-8:2 FTCA	100		50 - 150				10/19/23 12:32	11/01/23 05:34	1

# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-008C LCLC-8**

**Lab Sample ID: 320-105783-8**

Date Collected: 10/05/23 12:35

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15**

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>0.31</b>	<b>J M</b>	1.8	0.21	ng/L		10/19/23 12:32	11/01/23 05:56	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>0.60</b>	<b>J M</b>	1.8	0.21	ng/L		10/19/23 12:32	11/01/23 05:56	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.70</b>	<b>J M</b>	1.8	0.49	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluoroheptanoic acid (PFHpA)	0.89	U	1.8	0.43	ng/L		10/19/23 12:32	11/01/23 05:56	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>1.9</b>	<b>M</b>	1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorononanoic acid (PFNA)	1.3	U	1.8	0.50	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorodecanoic acid (PFDA)	0.89	U M	1.8	0.29	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluoroundecanoic acid (PFUnA)	1.3	U	1.8	0.65	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorododecanoic acid (PFDoA)	0.89	U	1.8	0.37	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorotridecanoic acid (PFTrDA)	1.3	U M	1.8	0.61	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorotetradecanoic acid (PFTeA)	1.3	U	1.8	0.45	ng/L		10/19/23 12:32	11/01/23 05:56	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.42</b>	<b>J M</b>	1.8	0.30	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluoropentanesulfonic acid (PFPeS)	1.3	U	1.8	0.45	ng/L		10/19/23 12:32	11/01/23 05:56	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>0.39</b>	<b>J M</b>	1.8	0.34	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluoroheptanesulfonic acid (PFHpS)	1.3	U	1.8	0.63	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorooctanesulfonic acid (PFOS)	1.3	U	1.8	0.51	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorononanesulfonic acid (PFNS)	1.3	U	1.8	0.59	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorodecanesulfonic acid (PFDS)	1.3	U	1.8	0.49	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorododecanesulfonic acid (PFDoS)	2.7	U	3.5	0.75	ng/L		10/19/23 12:32	11/01/23 05:56	1
Perfluorooctanesulfonamide (FOSA)	1.3	U	1.8	0.46	ng/L		10/19/23 12:32	11/01/23 05:56	1
NMeFOSAA	0.89	U	4.4	0.41	ng/L		10/19/23 12:32	11/01/23 05:56	1
NEtFOSAA	0.89	U	4.4	0.30	ng/L		10/19/23 12:32	11/01/23 05:56	1
4:2 FTS	0.89	U	1.8	0.32	ng/L		10/19/23 12:32	11/01/23 05:56	1
6:2 FTS	0.89	U	4.4	0.34	ng/L		10/19/23 12:32	11/01/23 05:56	1
8:2 FTS	1.3	U	1.8	0.55	ng/L		10/19/23 12:32	11/01/23 05:56	1
NEtFOSA	1.3	U M	1.8	0.66	ng/L		10/19/23 12:32	11/01/23 05:56	1
NMeFOSA	1.3	U	1.8	0.66	ng/L		10/19/23 12:32	11/01/23 05:56	1
NMeFOSE	0.89	U	3.5	0.43	ng/L		10/19/23 12:32	11/01/23 05:56	1
NEtFOSE	1.3	U	1.8	0.64	ng/L		10/19/23 12:32	11/01/23 05:56	1
9CI-PF3ONS	0.89	U	1.8	0.37	ng/L		10/19/23 12:32	11/01/23 05:56	1
HFPO-DA (GenX)	1.3	U	3.5	0.61	ng/L		10/19/23 12:32	11/01/23 05:56	1
11CI-PF3OUdS	0.89	U	1.8	0.43	ng/L		10/19/23 12:32	11/01/23 05:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.3	U M	1.8	0.45	ng/L		10/19/23 12:32	11/01/23 05:56	1
3:3 FTCA	0.89	U	1.8	0.38	ng/L		10/19/23 12:32	11/01/23 05:56	1
5:3 FTCA	0.89	U	1.8	0.29	ng/L		10/19/23 12:32	11/01/23 05:56	1
7:3 FTCA	1.3	U	1.8	0.49	ng/L		10/19/23 12:32	11/01/23 05:56	1
NFDHA	1.3	U	1.8	0.55	ng/L		10/19/23 12:32	11/01/23 05:56	1
PFMBA	0.89	U M	1.8	0.23	ng/L		10/19/23 12:32	11/01/23 05:56	1
PFMPA	0.89	U	1.8	0.25	ng/L		10/19/23 12:32	11/01/23 05:56	1
PFEESA	0.89	U	1.8	0.26	ng/L		10/19/23 12:32	11/01/23 05:56	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C8 FOSA	87		50 - 150				10/19/23 12:32	11/01/23 05:56	1
13C4 PFBA	100		50 - 150				10/19/23 12:32	11/01/23 05:56	1
13C5 PFPeA	98		50 - 150				10/19/23 12:32	11/01/23 05:56	1
13C2 PFHxA	98		50 - 150				10/19/23 12:32	11/01/23 05:56	1

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# Client Sample Results

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-008C LCLC-8**

**Lab Sample ID: 320-105783-8**

Date Collected: 10/05/23 12:35

Matrix: Water

Date Received: 10/10/23 09:10

**Method: DOD 5.3 QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFHpA	104		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C4 PFOA	94		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C5 PFNA	101		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C2 PFDA	98		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C2 PFUnA	96		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C2 PFDoA	91		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C2 PFTeDA	85		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C3 PFBS	98		50 - 150	10/19/23 12:32	11/01/23 05:56	1
18O2 PFHxS	100		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C4 PFOS	96		50 - 150	10/19/23 12:32	11/01/23 05:56	1
d3-NMeFOSAA	95		50 - 150	10/19/23 12:32	11/01/23 05:56	1
d5-NEtFOSAA	94		50 - 150	10/19/23 12:32	11/01/23 05:56	1
M2-4:2 FTS	101		50 - 150	10/19/23 12:32	11/01/23 05:56	1
M2-6:2 FTS	81		50 - 150	10/19/23 12:32	11/01/23 05:56	1
M2-8:2 FTS	84		50 - 150	10/19/23 12:32	11/01/23 05:56	1
d-N-MeFOSA-M	69		50 - 150	10/19/23 12:32	11/01/23 05:56	1
d-N-EtFOSA-M	67		50 - 150	10/19/23 12:32	11/01/23 05:56	1
d7-N-MeFOSE-M	72		50 - 150	10/19/23 12:32	11/01/23 05:56	1
d9-N-EtFOSE-M	76		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C3 HFPO-DA	94		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C-6:2 FTCA	98		50 - 150	10/19/23 12:32	11/01/23 05:56	1
13C-8:2 FTCA	95		50 - 150	10/19/23 12:32	11/01/23 05:56	1

# Isotope Dilution Summary

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

## Method: QSM B15 - PFAS for QSM 5.3, Table B-15

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (50-150)	PFBA (50-150)	PFPeA (50-150)	PFHxA (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
320-105783-1	2310374-001C LCLC-1	89	97	99	100	107	101	108	98
320-105783-2	2310374-002C LCLC-2	83	98	100	101	102	94	94	91
320-105783-3	2310374-003C LCLC-3	81	94	92	94	104	99	94	98
320-105783-4	2310374-004C LCLC-4	90	103	105	105	106	102	98	96
320-105783-5	2310374-005C LCLC-5	90	100	95	102	102	103	96	101
320-105783-6	2310374-006C LCLC-6	88	95	97	98	98	101	97	91
320-105783-7	2310374-007C LCLC-7	87	97	100	103	98	102	99	101
320-105783-8	2310374-008C LCLC-8	87	100	98	98	104	94	101	98
LCS 320-714316/2-A	Lab Control Sample	88	101	101	102	108	98	103	94
LCSD 320-714316/3-A	Lab Control Sample Dup	85	100	101	99	103	96	100	91
MB 320-714316/1-A	Method Blank	82	93	96	94	98	97	88	93

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
320-105783-1	2310374-001C LCLC-1	89	86	82	98	98	101	88	97
320-105783-2	2310374-002C LCLC-2	82	80	82	99	98	90	86	90
320-105783-3	2310374-003C LCLC-3	84	84	78	93	91	86	86	97
320-105783-4	2310374-004C LCLC-4	102	97	87	100	93	96	94	108
320-105783-5	2310374-005C LCLC-5	95	83	89	101	97	95	100	95
320-105783-6	2310374-006C LCLC-6	93	83	82	96	96	89	85	94
320-105783-7	2310374-007C LCLC-7	95	87	83	100	96	91	93	95
320-105783-8	2310374-008C LCLC-8	96	91	85	98	100	96	95	94
LCS 320-714316/2-A	Lab Control Sample	93	90	86	102	101	99	95	99
LCSD 320-714316/3-A	Lab Control Sample Dup	94	92	85	103	100	95	97	92
MB 320-714316/1-A	Method Blank	91	84	80	96	91	93	90	102

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (50-150)	M262FTS (50-150)	M282FTS (50-150)	dMeFOSA (50-150)	dEtFOSA (50-150)	NMFM (50-150)	NEFM (50-150)	HFPODA (50-150)
320-105783-1	2310374-001C LCLC-1	91	101	91	63	60	71	68	95
320-105783-2	2310374-002C LCLC-2	90	93	80	65	64	79	73	95
320-105783-3	2310374-003C LCLC-3	94	91	89	66	66	74	78	90
320-105783-4	2310374-004C LCLC-4	95	104	93	69	66	79	81	100
320-105783-5	2310374-005C LCLC-5	98	105	88	70	67	79	85	98
320-105783-6	2310374-006C LCLC-6	95	94	82	66	72	79	77	93
320-105783-7	2310374-007C LCLC-7	92	101	83	68	68	71	73	94
320-105783-8	2310374-008C LCLC-8	101	81	84	69	67	72	76	94
LCS 320-714316/2-A	Lab Control Sample	99	91	84	58	60	84	83	96
LCSD 320-714316/3-A	Lab Control Sample Dup	95	86	81	68	64	80	80	99
MB 320-714316/1-A	Method Blank	94	91	80	60	60	75	73	90

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	MFHEA (50-150)	MFOEA (50-150)
320-105783-1	2310374-001C LCLC-1	89	89
320-105783-2	2310374-002C LCLC-2	97	71
320-105783-3	2310374-003C LCLC-3	94	90
320-105783-4	2310374-004C LCLC-4	97	94
320-105783-5	2310374-005C LCLC-5	99	92
320-105783-6	2310374-006C LCLC-6	97	91
320-105783-7	2310374-007C LCLC-7	103	100

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# Isotope Dilution Summary

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

**Method: QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)**

**Matrix: Water**

**Prep Type: Total/NA**

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	MFHEA (50-150)	MFOEA (50-150)
320-105783-8	2310374-008C LCLC-8	98	95
LCS 320-714316/2-A	Lab Control Sample	99	99
LCSD 320-714316/3-A	Lab Control Sample Dup	96	95
MB 320-714316/1-A	Method Blank	92	76

#### Surrogate Legend

- PFOSA = 13C8 FOSA
- 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
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- dMeFOSA = d-N-MeFOSA-M
- dEtFOSA = d-N-EtFOSA-M
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- HFPODA = 13C3 HFPO-DA
- MFHEA = 13C-6:2 FTCA
- MFOEA = 13C-8:2 FTCA



# QC Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

## Method: QSM B15 - PFAS for QSM 5.3, Table B-15

Lab Sample ID: MB 320-714316/1-A

Matrix: Water

Analysis Batch: 717082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 714316

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	0.50	U M	2.0	0.24	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluoropentanoic acid (PFPeA)	0.50	U	2.0	0.24	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorohexanoic acid (PFHxA)	1.5	U	2.0	0.55	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluoroheptanoic acid (PFHpA)	1.0	U	2.0	0.48	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorooctanoic acid (PFOA)	1.5	U M	2.0	0.56	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorononanoic acid (PFNA)	1.5	U	2.0	0.56	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorodecanoic acid (PFDA)	1.0	U	2.0	0.33	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluoroundecanoic acid (PFUnA)	1.5	U	2.0	0.73	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorododecanoic acid (PFDoA)	1.0	U	2.0	0.42	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorotridecanoic acid (PFTrDA)	1.5	U M	2.0	0.69	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorotetradecanoic acid (PFTeA)	1.5	U	2.0	0.51	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorobutanesulfonic acid (PFBS)	1.0	U	2.0	0.34	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluoropentanesulfonic acid (PFPeS)	1.5	U	2.0	0.51	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorohexanesulfonic acid (PFHxS)	1.0	U	2.0	0.38	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluoroheptanesulfonic acid (PFHpS)	1.5	U	2.0	0.71	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorooctanesulfonic acid (PFOS)	1.5	U	2.0	0.58	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorononanesulfonic acid (PFNS)	1.5	U	2.0	0.66	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorodecanesulfonic acid (PFDS)	1.5	U	2.0	0.55	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorododecanesulfonic acid (PFDoS)	3.0	U	4.0	0.85	ng/L		10/19/23 12:32	11/01/23 03:52	1
Perfluorooctanesulfonamide (FOSA)	1.5	U M	2.0	0.52	ng/L		10/19/23 12:32	11/01/23 03:52	1
NMeFOSAA	1.0	U	5.0	0.46	ng/L		10/19/23 12:32	11/01/23 03:52	1
NEtFOSAA	1.0	U	5.0	0.34	ng/L		10/19/23 12:32	11/01/23 03:52	1
4:2 FTS	1.0	U	2.0	0.36	ng/L		10/19/23 12:32	11/01/23 03:52	1
6:2 FTS	1.0	U	5.0	0.38	ng/L		10/19/23 12:32	11/01/23 03:52	1
8:2 FTS	1.5	U	2.0	0.62	ng/L		10/19/23 12:32	11/01/23 03:52	1
NEtFOSA	1.5	U M	2.0	0.74	ng/L		10/19/23 12:32	11/01/23 03:52	1
NMeFOSA	1.5	U	2.0	0.74	ng/L		10/19/23 12:32	11/01/23 03:52	1
NMeFOSE	1.0	U	4.0	0.48	ng/L		10/19/23 12:32	11/01/23 03:52	1
NEtFOSE	1.5	U	2.0	0.72	ng/L		10/19/23 12:32	11/01/23 03:52	1
9CI-PF3ONS	1.0	U	2.0	0.42	ng/L		10/19/23 12:32	11/01/23 03:52	1
HFPO-DA (GenX)	1.5	U	4.0	0.69	ng/L		10/19/23 12:32	11/01/23 03:52	1
11CI-PF3OUdS	1.0	U M	2.0	0.48	ng/L		10/19/23 12:32	11/01/23 03:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.5	U M	2.0	0.51	ng/L		10/19/23 12:32	11/01/23 03:52	1
3:3 FTCA	1.0	U	2.0	0.43	ng/L		10/19/23 12:32	11/01/23 03:52	1
5:3 FTCA	1.0	U	2.0	0.33	ng/L		10/19/23 12:32	11/01/23 03:52	1
7:3 FTCA	1.5	U	2.0	0.55	ng/L		10/19/23 12:32	11/01/23 03:52	1
NFDHA	1.5	U	2.0	0.62	ng/L		10/19/23 12:32	11/01/23 03:52	1
PFMBA	1.0	U	2.0	0.26	ng/L		10/19/23 12:32	11/01/23 03:52	1
PFMPA	1.0	U	2.0	0.28	ng/L		10/19/23 12:32	11/01/23 03:52	1
PFEESA	1.0	U M	2.0	0.29	ng/L		10/19/23 12:32	11/01/23 03:52	1
	<b>MB</b>	<b>MB</b>							
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C8 FOSA	82		50 - 150				10/19/23 12:32	11/01/23 03:52	1
13C4 PFBA	93		50 - 150				10/19/23 12:32	11/01/23 03:52	1
13C5 PFPeA	96		50 - 150				10/19/23 12:32	11/01/23 03:52	1

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# QC Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

## Method: QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)

**Lab Sample ID: MB 320-714316/1-A**  
**Matrix: Water**  
**Analysis Batch: 717082**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 714316**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	94		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C4 PFHpA	98		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C4 PFOA	97		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C5 PFNA	88		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C2 PFDA	93		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C2 PFUnA	91		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C2 PFDoA	84		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C2 PFTeDA	80		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C3 PFBS	96		50 - 150	10/19/23 12:32	11/01/23 03:52	1
18O2 PFHxS	91		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C4 PFOS	93		50 - 150	10/19/23 12:32	11/01/23 03:52	1
d3-NMeFOSAA	90		50 - 150	10/19/23 12:32	11/01/23 03:52	1
d5-NEtFOSAA	102		50 - 150	10/19/23 12:32	11/01/23 03:52	1
M2-4:2 FTS	94		50 - 150	10/19/23 12:32	11/01/23 03:52	1
M2-6:2 FTS	91		50 - 150	10/19/23 12:32	11/01/23 03:52	1
M2-8:2 FTS	80		50 - 150	10/19/23 12:32	11/01/23 03:52	1
d-N-MeFOSA-M	60		50 - 150	10/19/23 12:32	11/01/23 03:52	1
d-N-EtFOSA-M	60		50 - 150	10/19/23 12:32	11/01/23 03:52	1
d7-N-MeFOSE-M	75		50 - 150	10/19/23 12:32	11/01/23 03:52	1
d9-N-EtFOSE-M	73		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C3 HFPO-DA	90		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C-6:2 FTCA	92		50 - 150	10/19/23 12:32	11/01/23 03:52	1
13C-8:2 FTCA	76		50 - 150	10/19/23 12:32	11/01/23 03:52	1

**Lab Sample ID: LCS 320-714316/2-A**  
**Matrix: Water**  
**Analysis Batch: 717082**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 714316**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Perfluoropentanoic acid (PFPeA)	40.0	39.6		ng/L		99	72 - 129	
Perfluorohexanoic acid (PFHxA)	40.0	39.7		ng/L		99	72 - 129	
Perfluoroheptanoic acid (PFHpA)	40.0	37.9		ng/L		95	72 - 130	
Perfluorooctanoic acid (PFOA)	40.0	42.4		ng/L		106	71 - 133	
Perfluorononanoic acid (PFNA)	40.0	40.8		ng/L		102	69 - 130	
Perfluorodecanoic acid (PFDA)	40.0	41.7		ng/L		104	71 - 129	
Perfluoroundecanoic acid (PFUnA)	40.0	39.9		ng/L		100	69 - 133	
Perfluorododecanoic acid (PFDoA)	40.0	43.8		ng/L		110	72 - 134	
Perfluorotridecanoic acid (PFTTrDA)	40.0	39.5		ng/L		99	65 - 144	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.6		ng/L		104	71 - 132	
Perfluorobutanesulfonic acid (PFBS)	35.5	38.2		ng/L		107	72 - 130	
Perfluoropentanesulfonic acid (PFPeS)	37.6	36.3		ng/L		96	71 - 127	
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.2		ng/L		94	68 - 131	

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# QC Sample Results

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

## Method: QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)

**Lab Sample ID: LCS 320-714316/2-A**  
**Matrix: Water**  
**Analysis Batch: 717082**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 714316**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.2		ng/L		100	69 - 134
Perfluorooctanesulfonic acid (PFOS)	37.2	37.4	M	ng/L		101	65 - 140
Perfluorononanesulfonic acid (PFNS)	38.5	37.8		ng/L		98	69 - 127
Perfluorodecanesulfonic acid (PFDS)	38.6	34.6		ng/L		90	53 - 142
Perfluorododecanesulfonic acid (PFDoS)	38.8	33.2		ng/L		86	73 - 125
Perfluorooctanesulfonamide (FOSA)	40.0	46.1		ng/L		115	67 - 137
NMeFOSAA	40.0	42.8		ng/L		107	65 - 136
NEtFOSAA	40.0	39.9		ng/L		100	61 - 135
4:2 FTS	37.5	34.6		ng/L		92	63 - 143
6:2 FTS	38.1	36.9		ng/L		97	64 - 140
8:2 FTS	38.4	45.6		ng/L		119	67 - 138
NEtFOSA	40.0	36.6		ng/L		92	83 - 110
NMeFOSA	40.0	42.0		ng/L		105	68 - 141
NMeFOSE	40.0	37.8		ng/L		95	60 - 137
NEtFOSE	40.0	40.8		ng/L		102	73 - 126
9CI-PF3ONS	37.4	35.8		ng/L		96	86 - 129
HFPO-DA (GenX)	40.0	41.3		ng/L		103	84 - 121
11CI-PF3OUdS	37.8	33.4		ng/L		88	80 - 131
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	41.3		ng/L		109	87 - 135
3:3 FTCA	40.0	40.5		ng/L		101	70 - 130
5:3 FTCA	40.0	41.2		ng/L		103	70 - 130
7:3 FTCA	40.0	39.5		ng/L		99	70 - 130
NFDHA	40.0	43.7		ng/L		109	70 - 130
PFMBA	40.0	42.6		ng/L		107	70 - 130
PFMPA	40.0	40.4		ng/L		101	70 - 130
PFEESA	35.7	36.0		ng/L		101	70 - 130

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C8 FOSA	88		50 - 150
13C4 PFBA	101		50 - 150
13C5 PFPeA	101		50 - 150
13C2 PFHxA	102		50 - 150
13C4 PFHpA	108		50 - 150
13C4 PFOA	98		50 - 150
13C5 PFNA	103		50 - 150
13C2 PFDA	94		50 - 150
13C2 PFUnA	93		50 - 150
13C2 PFDoA	90		50 - 150
13C2 PFTeDA	86		50 - 150
13C3 PFBS	102		50 - 150
18O2 PFHxS	101		50 - 150
13C4 PFOS	99		50 - 150
d3-NMeFOSAA	95		50 - 150

# QC Sample Results

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

## Method: QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)

**Lab Sample ID: LCS 320-714316/2-A**  
**Matrix: Water**  
**Analysis Batch: 717082**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 714316**

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	99		50 - 150
M2-4:2 FTS	99		50 - 150
M2-6:2 FTS	91		50 - 150
M2-8:2 FTS	84		50 - 150
d-N-MeFOSA-M	58		50 - 150
d-N-EtFOSA-M	60		50 - 150
d7-N-MeFOSE-M	84		50 - 150
d9-N-EtFOSE-M	83		50 - 150
13C3 HFPO-DA	96		50 - 150
13C-6:2 FTCA	99		50 - 150
13C-8:2 FTCA	99		50 - 150

**Lab Sample ID: LCSD 320-714316/3-A**  
**Matrix: Water**  
**Analysis Batch: 717082**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 714316**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	41.1		ng/L		103	73 - 129	0	30	
Perfluoropentanoic acid (PFPeA)	40.0	38.5		ng/L		96	72 - 129	3	30	
Perfluorohexanoic acid (PFHxA)	40.0	40.9		ng/L		102	72 - 129	3	30	
Perfluoroheptanoic acid (PFHpA)	40.0	38.8		ng/L		97	72 - 130	2	30	
Perfluorooctanoic acid (PFOA)	40.0	43.0		ng/L		107	71 - 133	1	30	
Perfluorononanoic acid (PFNA)	40.0	41.3		ng/L		103	69 - 130	1	30	
Perfluorodecanoic acid (PFDA)	40.0	38.9		ng/L		97	71 - 129	7	30	
Perfluoroundecanoic acid (PFUnA)	40.0	40.7		ng/L		102	69 - 133	2	30	
Perfluorododecanoic acid (PFDoA)	40.0	42.6		ng/L		107	72 - 134	3	30	
Perfluorotridecanoic acid (PFTrDA)	40.0	39.3		ng/L		98	65 - 144	0	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	43.8		ng/L		110	71 - 132	5	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	37.3		ng/L		105	72 - 130	2	30	
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.4		ng/L		94	71 - 127	2	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.3		ng/L		97	68 - 131	3	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.4		ng/L		101	69 - 134	0	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	37.3	M	ng/L		100	65 - 140	0	30	
Perfluorononanesulfonic acid (PFNS)	38.5	36.6		ng/L		95	69 - 127	3	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	32.3		ng/L		84	53 - 142	7	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.1		ng/L		91	73 - 125	6	30	
Perfluorooctanesulfonamide (FOSA)	40.0	46.4		ng/L		116	67 - 137	1	30	
NMeFOSAA	40.0	40.1		ng/L		100	65 - 136	7	30	
NEtFOSAA	40.0	41.7		ng/L		104	61 - 135	4	30	

Eurofins Sacramento

# QC Sample Results

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

## Method: QSM B15 - PFAS for QSM 5.3, Table B-15 (Continued)

**Lab Sample ID: LCSD 320-714316/3-A**  
**Matrix: Water**  
**Analysis Batch: 717082**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 714316**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4:2 FTS	37.5	34.8		ng/L		93	63 - 143	1	30
6:2 FTS	38.1	35.8		ng/L		94	64 - 140	3	30
8:2 FTS	38.4	39.5		ng/L		103	67 - 138	15	30
NEtFOSA	40.0	38.4		ng/L		96	83 - 110	5	30
NMeFOSA	40.0	41.2		ng/L		103	68 - 141	2	30
NMeFOSE	40.0	39.4		ng/L		98	60 - 137	4	30
NEtFOSE	40.0	39.8		ng/L		99	73 - 126	3	30
9CI-PF3ONS	37.4	34.4		ng/L		92	86 - 129	4	30
HFPO-DA (GenX)	40.0	39.6		ng/L		99	84 - 121	4	30
11CI-PF3OUdS	37.8	33.4		ng/L		88	80 - 131	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	43.3		ng/L		114	87 - 135	5	30
3:3 FTCA	40.0	38.9		ng/L		97	70 - 130	4	30
5:3 FTCA	40.0	42.6		ng/L		106	70 - 130	3	30
7:3 FTCA	40.0	40.4		ng/L		101	70 - 130	2	30
NFDHA	40.0	42.9		ng/L		107	70 - 130	2	30
PFMBA	40.0	41.8		ng/L		105	70 - 130	2	30
PFMPA	40.0	41.8		ng/L		104	70 - 130	3	30
PFEESA	35.7	36.4		ng/L		102	70 - 130	1	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C8 FOSA	85		50 - 150
13C4 PFBA	100		50 - 150
13C5 PFPeA	101		50 - 150
13C2 PFHxA	99		50 - 150
13C4 PFHpA	103		50 - 150
13C4 PFOA	96		50 - 150
13C5 PFNA	100		50 - 150
13C2 PFDA	91		50 - 150
13C2 PFUnA	94		50 - 150
13C2 PFDoA	92		50 - 150
13C2 PFTeDA	85		50 - 150
13C3 PFBS	103		50 - 150
18O2 PFHxS	100		50 - 150
13C4 PFOS	95		50 - 150
d3-NMeFOSAA	97		50 - 150
d5-NEtFOSAA	92		50 - 150
M2-4:2 FTS	95		50 - 150
M2-6:2 FTS	86		50 - 150
M2-8:2 FTS	81		50 - 150
d-N-MeFOSA-M	68		50 - 150
d-N-EtFOSA-M	64		50 - 150
d7-N-MeFOSE-M	80		50 - 150
d9-N-EtFOSE-M	80		50 - 150
13C3 HFPO-DA	99		50 - 150
13C-6:2 FTCA	96		50 - 150
13C-8:2 FTCA	95		50 - 150

# QC Association Summary

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

## LCMS

### Prep Batch: 714316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-105783-1	2310374-001C LCLC-1	Total/NA	Water	3535	
320-105783-2	2310374-002C LCLC-2	Total/NA	Water	3535	
320-105783-3	2310374-003C LCLC-3	Total/NA	Water	3535	
320-105783-4	2310374-004C LCLC-4	Total/NA	Water	3535	
320-105783-5	2310374-005C LCLC-5	Total/NA	Water	3535	
320-105783-6	2310374-006C LCLC-6	Total/NA	Water	3535	
320-105783-7	2310374-007C LCLC-7	Total/NA	Water	3535	
320-105783-8	2310374-008C LCLC-8	Total/NA	Water	3535	
MB 320-714316/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-714316/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-714316/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 717082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-105783-1	2310374-001C LCLC-1	Total/NA	Water	QSM B15	714316
320-105783-2	2310374-002C LCLC-2	Total/NA	Water	QSM B15	714316
320-105783-3	2310374-003C LCLC-3	Total/NA	Water	QSM B15	714316
320-105783-4	2310374-004C LCLC-4	Total/NA	Water	QSM B15	714316
320-105783-5	2310374-005C LCLC-5	Total/NA	Water	QSM B15	714316
320-105783-6	2310374-006C LCLC-6	Total/NA	Water	QSM B15	714316
320-105783-7	2310374-007C LCLC-7	Total/NA	Water	QSM B15	714316
320-105783-8	2310374-008C LCLC-8	Total/NA	Water	QSM B15	714316
MB 320-714316/1-A	Method Blank	Total/NA	Water	QSM B15	714316
LCS 320-714316/2-A	Lab Control Sample	Total/NA	Water	QSM B15	714316
LCSD 320-714316/3-A	Lab Control Sample Dup	Total/NA	Water	QSM B15	714316

# Lab Chronicle

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-001C LCLC-1**

**Lab Sample ID: 320-105783-1**

Date Collected: 10/05/23 09:20

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			269.6 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 04:26	C1P	EET SAC

**Client Sample ID: 2310374-002C LCLC-2**

**Lab Sample ID: 320-105783-2**

Date Collected: 10/05/23 09:30

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			284.9 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 04:37	C1P	EET SAC

**Client Sample ID: 2310374-003C LCLC-3**

**Lab Sample ID: 320-105783-3**

Date Collected: 10/05/23 09:55

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			295.4 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 04:49	C1P	EET SAC

**Client Sample ID: 2310374-004C LCLC-4**

**Lab Sample ID: 320-105783-4**

Date Collected: 10/05/23 09:50

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			289.4 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 05:00	C1P	EET SAC

**Client Sample ID: 2310374-005C LCLC-5**

**Lab Sample ID: 320-105783-5**

Date Collected: 10/05/23 10:25

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			276.2 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 05:11	C1P	EET SAC

**Client Sample ID: 2310374-006C LCLC-6**

**Lab Sample ID: 320-105783-6**

Date Collected: 10/05/23 10:50

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			290.2 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 05:23	C1P	EET SAC

# Lab Chronicle

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

**Client Sample ID: 2310374-007C LCLC-7**

**Lab Sample ID: 320-105783-7**

**Date Collected: 10/05/23 12:20**

**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			276.3 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 05:34	C1P	EET SAC

**Client Sample ID: 2310374-008C LCLC-8**

**Lab Sample ID: 320-105783-8**

**Date Collected: 10/05/23 12:35**

**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			281.8 mL	10.0 mL	714316	10/19/23 12:32	JS	EET SAC
Total/NA	Analysis	QSM B15		1	1 mL	1 mL	717082	11/01/23 05:56	C1P	EET SAC

**Laboratory References:**

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

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# Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory  
 Project/Site: 2310374

Job ID: 320-105783-1

## Laboratory: Eurofins 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	08-11-24
Arkansas DEQ	State	88-0691	05-18-24
California	State	2897	01-22-24
Colorado	State	CA00044	08-31-24
Florida	NELAP	E87570	06-30-24
Georgia	State	4040	01-29-24
Hawaii	State	<cert No.>	01-29-24
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-24
Louisiana (All)	NELAP	01944	06-30-24
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-31-24
Nevada	State	CA00044	07-31-24
New Hampshire	NELAP	2997	04-18-24
New Jersey	NELAP	CA005	06-30-24
New York	NELAP	11666	04-01-24
Ohio	State	41252	01-29-24
Oregon	NELAP	4040	01-29-24
Texas	NELAP	T104704399-23-17	05-31-24
US Fish & Wildlife	US Federal Programs	58448	04-30-24
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-29-24
Virginia	NELAP	460278	03-14-24
Washington	State	C581	05-05-24
West Virginia (DW)	State	9930C	12-31-23
Wisconsin	State	998204680	08-31-24
Wyoming	State Program	8TMS-L	01-28-19 *

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





# Method Summary

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

Method	Method Description	Protocol	Laboratory
QSM B15	PFAS for QSM 5.3, Table B-15	DOD 5.3	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC

**Protocol References:**

DOD 5.3 = Department of Defense Quality Systems Manual V5.3

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

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# Sample Summary

Client: Hall Environmental Analysis Laboratory  
Project/Site: 2310374

Job ID: 320-105783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-105783-1	2310374-001C LCLC-1	Water	10/05/23 09:20	10/10/23 09:10
320-105783-2	2310374-002C LCLC-2	Water	10/05/23 09:30	10/10/23 09:10
320-105783-3	2310374-003C LCLC-3	Water	10/05/23 09:55	10/10/23 09:10
320-105783-4	2310374-004C LCLC-4	Water	10/05/23 09:50	10/10/23 09:10
320-105783-5	2310374-005C LCLC-5	Water	10/05/23 10:25	10/10/23 09:10
320-105783-6	2310374-006C LCLC-6	Water	10/05/23 10:50	10/10/23 09:10
320-105783-7	2310374-007C LCLC-7	Water	10/05/23 12:20	10/10/23 09:10
320-105783-8	2310374-008C LCLC-8	Water	10/05/23 12:35	10/10/23 09:10

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**CHAIN OF CUSTODY RECORD**

PAGE: 1 OF 1

Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975  
 FAX: 505-345-4107  
 Website: www.hallenvironmental.com

SUB CONTRACTOR: **TestAm -Sacramento** COMPANY: **Eurofins TestAmerica** PHONE: (916) 373-5600 FAX: (916) 373-5600  
 ADDRESS: **880 Riverside Parkway** ACCOUNT#: \_\_\_\_\_ EMAIL: \_\_\_\_\_  
 CITY, STATE, ZIP: **West Sacramento, CA 95605**

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	CONTAINERS	ANALYTICAL COMMENTS
1	2310374-001C	LCLC-1	250HDPE	Groundw	10/5/2023 9:20:00 AM	2	see attached note.
2	2310374-002C	LCLC-2	250HDPE	Groundw	10/5/2023 9:30:00 AM	2	see attached note.
3	2310374-003C	LCLC-3	250HDPE	Groundw	10/5/2023 9:55:00 AM	2	see attached note.
4	2310374-004C	LCLC-4	250HDPE	Groundw	10/5/2023 9:50:00 AM	2	see attached note.
5	2310374-005C	LCLC-5	250HDPE	Groundw	10/5/2023 10:25:00 AM	2	see attached note.
6	2310374-006C	LCLC-6	250HDPE	Groundw	10/5/2023 10:50:00 AM	2	see attached note.
7	2310374-007C	LCLC-7	250HDPE	Groundw	10/5/2023 12:20:00 PM	2	see attached note.
8	2310374-008C	LCLC-8	250HDPE	Groundw	10/5/2023 12:35:00 PM	2	see attached note.



**SPECIAL INSTRUCTIONS/COMMENTS:**

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>[Signature]</i>	Date: 10/6/2023	Time: 4:06 PM	Received By: <i>[Signature]</i>	Date: 10/6/2023	Time: 9:00 AM
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard  RUSH  Next BD  2nd BD  3rd BD

Temp of samples: 3.9 °C Attempt to Cool: \_\_\_\_\_

Comments: \_\_\_\_\_

REPORT TRANSMITTAL DESIRED:  
 HARD COPY (extra cost)  FAX  EMAIL  ONLINE





Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320  
105783

Tracking #: 7736 8068 3457

Job: \_\_\_\_\_

SO / PO / 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>C10</u> Corr. Factor: ( + / - ) _____ °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Ice _____ Wet _____ Gel _____ Other _____	
Cooler Custody Seal: _____	
Cooler ID: _____	
Temp Observed: <u>3.9</u> °C    Corrected: <u>3.9</u> °C From: Temp Blank <input type="checkbox"/> Sample <input type="checkbox"/>	
<b>Opening/Processing The Shipment</b> <b>Yes</b> <b>No</b> <b>NA</b>	
Cooler compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Frozen samples show signs of thaw? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Initials: <u>JF</u> Date: <u>10/10/23</u>	
<b>Unpacking/Labeling The Samples</b> <b>Yes</b> <b>No</b> <b>NA</b>	Trizma Lot #(s): _____ _____ _____  Ammonium Acetate Lot #(s): _____ _____ _____
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 checked="" type="checkbox"/> <input type="checkbox"/>	<b>Login Completion</b> <b>Yes</b> <b>No</b> <b>NA</b>
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"/>	Receipt Temperature on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Initials: <u>JF</u> Date: <u>10/10/23</u>	NCM Filed? <input type="checkbox"/> <input checked="" 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 type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Initials: <u>JF</u> Date: <u>10/10/23</u>
	Initials: <u>JF</u> Date: <u>10/10/23</u>

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

**Desiree Dominguez**

---

**PFAS for isotope dilution liquid chromatography/tandem mass spectrometry methods adhering to DOD's QSM Version 5.3 Table B-15**

**Desiree Dominguez**  
Sample Control Manager  
Hall Environmental  
490 Parks NE  
Augustine NV 89009  
Ph: 505-345-3975 (Ext. 109)

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# Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-105783-1

**Login Number: 105783**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator: Fisher, Jamyiah L**

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



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310374

06-Nov-23

**Client:** Daniel B. Stephens & Assoc.  
**Project:** LCLC domestic Well Sampling

Sample ID: <b>MB-B</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B100429</b>	RunNo: <b>100429</b>								
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3678993</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: <b>LCSLL-B</b>	SampType: <b>LCSLL</b>	TestCode: <b>EPA Method 200.7: Metals</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>B100429</b>	RunNo: <b>100429</b>								
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3678994</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	ND	1.0	0.5000	0	104	50	150			
Magnesium	ND	1.0	0.5000	0	104	50	150			
Potassium	ND	1.0	0.5000	0	111	50	150			
Sodium	ND	1.0	0.5000	0	102	50	150			

Sample ID: <b>LCS-B</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>B100429</b>	RunNo: <b>100429</b>								
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3678995</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	49	1.0	50.00	0	98.1	85	115			
Magnesium	49	1.0	50.00	0	98.5	85	115			
Potassium	49	1.0	50.00	0	98.9	85	115			
Sodium	48	1.0	50.00	0	96.8	85	115			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310374

06-Nov-23

**Client:** Daniel B. Stephens & Assoc.  
**Project:** LCLC domestic Well Sampling

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A100294</b>	RunNo: <b>100294</b>								
Prep Date:	Analysis Date: <b>10/6/2023</b>	SeqNo: <b>3672471</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A100294</b>	RunNo: <b>100294</b>								
Prep Date:	Analysis Date: <b>10/6/2023</b>	SeqNo: <b>3672472</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.47	0.10	0.5000	0	94.4	90	110			
Chloride	4.8	0.50	5.000	0	95.9	90	110			
Nitrogen, Nitrite (As N)	0.99	0.10	1.000	0	98.5	90	110			
Bromide	2.4	0.10	2.500	0	97.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	96.3	90	110			
Sulfate	9.8	0.50	10.00	0	98.4	90	110			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R100302</b>	RunNo: <b>100302</b>								
Prep Date:	Analysis Date: <b>10/7/2023</b>	SeqNo: <b>3672932</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R100302</b>	RunNo: <b>100302</b>								
Prep Date:	Analysis Date: <b>10/7/2023</b>	SeqNo: <b>3672933</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.48	0.10	0.5000	0	95.9	90	110			
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**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310374

06-Nov-23

**Client:** Daniel B. Stephens & Assoc.  
**Project:** LCLC domestic Well Sampling

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R100302</b>		RunNo: <b>100302</b>							
Prep Date:	Analysis Date: <b>10/7/2023</b>		SeqNo: <b>3672933</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.4	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	96.7	90	110			
Bromide	2.4	0.10	2.500	0	96.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			
Phosphorus, Orthophosphate (As P)	4.7	0.50	5.000	0	93.1	90	110			
Sulfate	9.7	0.50	10.00	0	96.6	90	110			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>A100500</b>		RunNo: <b>100500</b>							
Prep Date:	Analysis Date: <b>10/16/2023</b>		SeqNo: <b>3683592</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>A100500</b>		RunNo: <b>100500</b>							
Prep Date:	Analysis Date: <b>10/16/2023</b>		SeqNo: <b>3683593</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.8	90	110			
Sulfate	9.7	0.50	10.00	0	97.3	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310374

06-Nov-23

**Client:** Daniel B. Stephens & Assoc.  
**Project:** LCLC domestic Well Sampling

Sample ID: <b>LCS-1 99.5uS eC</b>	SampType: <b>LCS</b>	TestCode: <b>SM2510B: Specific Conductance</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R100435</b>	RunNo: <b>100435</b>								
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3679238</b>	Units: <b>µmhos/cm</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	99	10	99.50	0	99.9	85	115			

Sample ID: <b>2310374-001A DUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2510B: Specific Conductance</b>								
Client ID: <b>LCLC-1</b>	Batch ID: <b>R100435</b>	RunNo: <b>100435</b>								
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3679240</b>	Units: <b>µmhos/cm</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	570	10						0.556	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310374

06-Nov-23

**Client:** Daniel B. Stephens & Assoc.  
**Project:** LCLC domestic Well Sampling

Sample ID: <b>MB-3 Aik</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B100435</b>	RunNo: <b>100435</b>								
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3679212</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>LCS-3 Aik</b>	SampType: <b>LCS</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>B100435</b>	RunNo: <b>100435</b>								
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3679213</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.04	20.00	80.00	0	97.6	90	110			

Sample ID: <b>2310374-001A DUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2320B: Alkalinity</b>									
Client ID: <b>LCLC-1</b>	Batch ID: <b>B100435</b>	RunNo: <b>100435</b>									
Prep Date:	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3679218</b>	Units: <b>mg/L CaCO3</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	170.5	20.00							0	20	

**Qualifiers:**

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.                                      | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix  | E Above Quantitation Range/Estimated Value        |
| H Holding times for preparation or analysis exceeded                            | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit  | RL Reporting Limit                                |
| S % Recovery outside of standard limits. If undiluted results may be estimated. |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310374

06-Nov-23

**Client:** Daniel B. Stephens & Assoc.  
**Project:** LCLC domestic Well Sampling

Sample ID: <b>MB-78055</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>78055</b>	RunNo: <b>100381</b>								
Prep Date: <b>10/10/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3676775</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: <b>LCS-78055</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>78055</b>	RunNo: <b>100381</b>								
Prep Date: <b>10/10/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3676776</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	50.0	1000	0	101	80	120			

Sample ID: <b>2310374-004ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCLC-4</b>	Batch ID: <b>78055</b>	RunNo: <b>100381</b>								
Prep Date: <b>10/10/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3676794</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0						0	10	

**Qualifiers:**

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.                                      | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix  | E Above Quantitation Range/Estimated Value        |
| H Holding times for preparation or analysis exceeded                            | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit  | RL Reporting Limit                                |
| S % Recovery outside of standard limits. If undiluted results may be estimated. |   |

**Sample Log-In Check List**

Client Name: Daniel B. Stephens & Assoc.      Work Order Number: 2310374      RcptNo: 1

Received By: Juan Rojas      10/6/2023 3:37:00 PM      *Juan Rojas*

Completed By: Desiree Dominguez      10/6/2023 3:55:43 PM      *DD*

Reviewed By: *7/10/6/23*

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      Client

**Log In**

3. Was an attempt made to cool the samples?      Yes       No       NA
4. Were all samples received at a temperature of >0° C to 6.0°C      Yes       No       NA
5. Sample(s) in proper container(s)?      Yes       No
6. Sufficient sample volume for indicated test(s)?      Yes       No
7. Are samples (except VOA and ONG) properly preserved?      Yes       No
8. Was preservative added to bottles?      Yes       No       NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA?      Yes       No       NA
10. Were any sample containers received broken?      Yes       No
11. Does paperwork match bottle labels?      Yes       No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody?      Yes       No
13. Is it clear what analyses were requested?      Yes       No
14. Were all holding times able to be met?      Yes       No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: *8*  
 (2 or >12 unless noted)  
 Adjusted? *NO*  
 Checked by: *SCM 10/6/23*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good	Not Present	Morty		

# Chain-of-Custody Record

Client: DB5eA  
 Mailing Address: 1020 Academy NE Suite 100  
ALBUQUERQUE, NM 87109  
 Phone #: 505-822-9400  
 email or Fax#: awing@geo-logic.com  
 QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush  
 Project Name: KCLC Domestic Water Sampling  
 Project #: DB23.1188.00 P2

Project Manager: Amy Emery  
 Sampler: Jenifer Fisher  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 5.7-5.7 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/16/23	0930	GW	KCLC-1	1-500ml Poly	3-20% HNO <sub>3</sub> HNO <sub>3</sub> TALS	2310374
	0930		KCLC-2			-001
	0955		KCLC-3			-002
	0950		KCLC-4			-003
	1025		KCLC-5			-004
	1050		KCLC-6			-005
	1220		KCLC-7			-006
	1335		KCLC-8			-007
						-008

Relinquished by: [Signature] Date: 10/16/23 Time: 1537  
 Relinquished by: [Signature] Date: 10/16/23 Time: 1537  
 Received by: [Signature] Date: 10/16/23 Time: 1537  
 Received by: [Signature] Date: 10/16/23 Time: 1537



www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMB's (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>Crossed out</u>
	<u>PFAS</u>

Remarks: CAB - See Attachment  
PFAS - 100% DILUTION CHEMOTOXICITY/TANDEM  
MASS SPECTROSCOPY (LEMSING) METHODS  
ADAPTING TO DDBS QUANTITY MANUAL  
QSM VERSION 5.3 TABLE B-15  
SEE ATTACHMENT

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.