



## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Merrimack Village District  
2 Greens Pond Road  
Merrimack NH 03054

Report Date: August 15, 2019 17:12

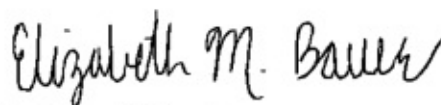
### Project: PFC Investigation

Account #: 38083  
Group Number: 2055911  
PO Number: 1531010  
State of Sample Origin: NH

Electronic Copy To Merrimack Village District

Attn: Jill Lavoie

Respectfully Submitted,



Elizabeth M. Bauer  
Project Manager

(717) 556-7290

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/> . Historical copies may be requested through your project manager.



### SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
MVD-2(T) /1531010_008 Grab Potable Water	07/25/2019 10:36	1112055
MVD-3(R) /1531010_003 Grab Potable Water	07/25/2019 12:45	1112056
MVD-7(R) /1531010_007 Grab Potable Water	07/25/2019 12:18	1112057
MVD-8(R) /1531010_009 Grab Potable Water	07/25/2019 12:22	1112058
MVD-TP /1531010_508 Grab Potable Water	07/25/2019 12:26	1112059

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

**Sample Description:** MVD-2(T) /1531010\_008 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112055  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 10:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid <sup>1</sup>	120226-60-0	N.D.	0.86	4.3	1
14473	4:2-Fluorotelomersulfonic acid <sup>1</sup>	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	N.D.	0.86	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA <sup>1</sup>	4151-50-2	N.D.	0.86	4.3	1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide						
14473	NEtPFOSAE <sup>1</sup>	1691-99-2	N.D.	0.86	2.6	1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol						
14473	NMeFOSAA	2355-31-9	N.D.	0.52	1.7	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMePFOSA <sup>1</sup>	31506-32-8	N.D.	0.86	2.6	1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide						
14473	NMePFOSAE <sup>1</sup>	24448-09-7	N.D.	0.86	2.6	1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol						
14473	Perfluorobutanesulfonic acid	375-73-5	4.4	0.43	1.7	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	2.7 J	1.7	4.3	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid <sup>1</sup>	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	2.3	0.43	1.7	1
14473	Perfluorohexadecanoic acid <sup>1</sup>	67905-19-5	N.D.	0.86	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.3 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	3.3	0.43	1.7	1
14473	Perfluorononanesulfonic acid <sup>1</sup>	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14473	Perfluorooctadecanoic acid <sup>1</sup>	16517-11-6	N.D.	0.86	2.6	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	2.2	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	18	0.43	1.7	1
14473	Perfluoropentanesulfonate <sup>1</sup>	2706-91-4	0.52 J	0.43	1.7	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	2.5	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-2(T) /1531010\_008 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112055  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 10:36

### Sample Comments

<sup>1</sup> = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19212001	08/02/2019 20:09	Brian Kiser	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19212001	07/31/2019 08:00	Austin Prince	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-3(R) /1531010\_003 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112056  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 12:45

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid <sup>1</sup>	120226-60-0	N.D.	0.87	4.3	1
14473	4:2-Fluorotelomersulfonic acid <sup>1</sup>	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	N.D.	0.87	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14473	NEtPFOSA <sup>1</sup>	4151-50-2	N.D.	0.87	4.3	1
	NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide					
14473	NEtPFOSAE <sup>1</sup>	1691-99-2	N.D.	0.87	2.6	1
	NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol					
14473	NMeFOSAA	2355-31-9	N.D.	0.52	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14473	NMePFOSA <sup>1</sup>	31506-32-8	N.D.	0.87	2.6	1
	NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide					
14473	NMePFOSAE <sup>1</sup>	24448-09-7	N.D.	0.87	2.6	1
	NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol					
14473	Perfluorobutanesulfonic acid	375-73-5	5.5	0.43	1.7	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	7.0	1.7	4.3	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid <sup>1</sup>	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	6.0	0.43	1.7	1
14473	Perfluorohexadecanoic acid <sup>1</sup>	67905-19-5	N.D.	0.87	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	0.78 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	11	0.43	1.7	1
14473	Perfluorononanesulfonic acid <sup>1</sup>	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	1.2 J	0.43	1.7	1
14473	Perfluorooctadecanoic acid <sup>1</sup>	16517-11-6	N.D.	0.87	2.6	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	2.7	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	23	0.43	1.7	1
14473	Perfluoropentanesulfonate <sup>1</sup>	2706-91-4	N.D.	0.43	1.7	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	9.4	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-3(R) /1531010\_003 Grab Potable Water  
PFC Investigation

Merrimack Village District  
**ELLE Sample #:** PW 1112056  
**ELLE Group #:** 2055911  
**Matrix:** Potable Water

**Project Name:** PFC Investigation

**Submittal Date/Time:** 07/26/2019 10:20  
**Collection Date/Time:** 07/25/2019 12:45

### Sample Comments

<sup>1</sup> = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19212001	08/02/2019 20:18	Brian Kiser	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19212001	07/31/2019 08:00	Austin Prince	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-7(R) /1531010\_007 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112057  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 12:18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid <sup>1</sup>	120226-60-0	N.D.	0.87	4.3	1
14473	4:2-Fluorotelomersulfonic acid <sup>1</sup>	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	N.D.	0.87	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14473	NEtPFOSA <sup>1</sup>	4151-50-2	N.D.	0.87	4.3	1
	NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide					
14473	NEtPFOSAE <sup>1</sup>	1691-99-2	N.D.	0.87	2.6	1
	NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol					
14473	NMeFOSAA	2355-31-9	N.D.	0.52	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14473	NMePFOSA <sup>1</sup>	31506-32-8	N.D.	0.87	2.6	1
	NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide					
14473	NMePFOSAE <sup>1</sup>	24448-09-7	N.D.	0.87	2.6	1
	NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol					
14473	Perfluorobutanesulfonic acid	375-73-5	1.9	0.43	1.7	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	2.5 J	1.7	4.3	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid <sup>1</sup>	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	2.8	0.43	1.7	1
14473	Perfluorohexadecanoic acid <sup>1</sup>	67905-19-5	N.D.	0.87	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.5 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	2.9	0.43	1.7	1
14473	Perfluorononanesulfonic acid <sup>1</sup>	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	0.68 J	0.43	1.7	1
14473	Perfluorooctadecanoic acid <sup>1</sup>	16517-11-6	N.D.	0.87	2.6	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	3.0	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	23	0.43	1.7	1
14473	Perfluoropentanesulfonate <sup>1</sup>	2706-91-4	0.45 J	0.43	1.7	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	2.3	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The recovery for the labeled compound used as extraction standards is outside the QC acceptance limits as noted on the QC Summary. The

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-7(R) /1531010\_007 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112057  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 12:18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	sample was reextracted within holding time and extraction standards were again outside of the QC acceptance limits. The data is reported from the original extraction.					

### Sample Comments

<sup>1</sup> = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19212001	08/02/2019 20:27	Brian Kiser	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19212001	07/31/2019 08:00	Austin Prince	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** MVD-8(R) /1531010\_009 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112058  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submission Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 12:22

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid <sup>1</sup>	120226-60-0	N.D.	0.87	4.3	1
14473	4:2-Fluorotelomersulfonic acid <sup>1</sup>	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	N.D.	0.87	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA <sup>1</sup>	4151-50-2	N.D.	0.87	4.3	1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide						
14473	NEtPFOSAE <sup>1</sup>	1691-99-2	N.D.	0.87	2.6	1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol						
14473	NMeFOSAA	2355-31-9	N.D.	0.52	1.7	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMePFOSA <sup>1</sup>	31506-32-8	N.D.	0.87	2.6	1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide						
14473	NMePFOSAE <sup>1</sup>	24448-09-7	N.D.	0.87	2.6	1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol						
14473	Perfluorobutanesulfonic acid	375-73-5	1.6 J	0.43	1.7	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	2.1 J	1.7	4.3	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid <sup>1</sup>	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	2.2	0.43	1.7	1
14473	Perfluorohexadecanoic acid <sup>1</sup>	67905-19-5	N.D.	0.87	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.4 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	2.3	0.43	1.7	1
14473	Perfluorononanesulfonic acid <sup>1</sup>	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14473	Perfluorooctadecanoic acid <sup>1</sup>	16517-11-6	N.D.	0.87	2.6	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	1.7 J	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	19	0.43	1.7	1
14473	Perfluoropentanesulfonate <sup>1</sup>	2706-91-4	N.D.	0.43	1.7	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	1.9	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The recovery for the labeled compound used as extraction standards is outside the QC acceptance limits as noted on the QC Summary. The

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-8(R) /1531010\_009 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112058  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 12:22

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	sample was reextracted within holding time and extraction standards were again outside of the QC acceptance limits. The data is reported from the original extraction.					

### Sample Comments

<sup>1</sup> = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19212001	08/02/2019 20:36	Brian Kiser	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19212001	07/31/2019 08:00	Austin Prince	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-TP /1531010\_508 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112059  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 12:26

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid <sup>1</sup>	120226-60-0	N.D.	0.87	4.3	1
14473	4:2-Fluorotelomersulfonic acid <sup>1</sup>	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	N.D.	0.87	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA <sup>1</sup>	4151-50-2	N.D.	0.87	4.3	1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide						
14473	NEtPFOSAE <sup>1</sup>	1691-99-2	N.D.	0.87	2.6	1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol						
14473	NMeFOSAA	2355-31-9	N.D.	0.52	1.7	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMePFOSA <sup>1</sup>	31506-32-8	N.D.	0.87	2.6	1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide						
14473	NMePFOSAE <sup>1</sup>	24448-09-7	N.D.	0.87	2.6	1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol						
14473	Perfluorobutanesulfonic acid	375-73-5	1.8	0.43	1.7	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	2.2 J	1.7	4.3	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid <sup>1</sup>	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	2.5	0.43	1.7	1
14473	Perfluorohexadecanoic acid <sup>1</sup>	67905-19-5	N.D.	0.87	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.4 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	2.7	0.43	1.7	1
14473	Perfluorononanesulfonic acid <sup>1</sup>	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14473	Perfluorooctadecanoic acid <sup>1</sup>	16517-11-6	N.D.	0.87	2.6	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	2.5	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	22	0.43	1.7	1
14473	Perfluoropentanesulfonate <sup>1</sup>	2706-91-4	N.D.	0.43	1.7	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	2.1	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

\*=This limit was used in the evaluation of the final result

**Sample Description:** MVD-TP /1531010\_508 Grab Potable Water  
PFC Investigation

Merrimack Village District  
ELLE Sample #: PW 1112059  
ELLE Group #: 2055911  
Matrix: Potable Water

**Project Name:** PFC Investigation

Submittal Date/Time: 07/26/2019 10:20  
Collection Date/Time: 07/25/2019 12:26

### Sample Comments

<sup>1</sup> = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19212001	08/02/2019 20:46	Brian Kiser	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19212001	07/31/2019 08:00	Austin Prince	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: Merrimack Village District  
Reported: 08/15/2019 17:12

Group Number: 2055911

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result	MDL**	LOQ
	ng/l	ng/l	ng/l
Batch number: 19212001	Sample number(s): 1112055-1112059		
10:2-Fluorotelomersulfonic acid	N.D.	1.0	5.0
4:2-Fluorotelomersulfonic acid	N.D.	0.50	2.0
6:2-Fluorotelomersulfonic acid	N.D.	2.0	5.0
8:2-Fluorotelomersulfonic acid	N.D.	1.0	3.0
NEtFOSAA	N.D.	0.50	3.0
NEtPFOSA	N.D.	1.0	5.0
NEtPFOSAE	N.D.	1.0	3.0
NMeFOSAA	N.D.	0.60	2.0
NMePFOSA	N.D.	1.0	3.0
NMePFOSAE	N.D.	1.0	3.0
Perfluorobutanesulfonic acid	N.D.	0.50	2.0
Perfluorobutanoic acid	N.D.	2.0	5.0
Perfluorodecanesulfonic acid	N.D.	0.50	2.0
Perfluorodecanoic acid	N.D.	0.50	2.0
Perfluorododecanesulfonic acid	N.D.	0.50	3.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanesulfonic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexadecanoic acid	N.D.	1.0	3.0
Perfluorohexanesulfonic acid	N.D.	0.50	2.0
Perfluorohexanoic acid	N.D.	0.50	2.0
Perfluorononanesulfonic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluorooctadecanoic acid	N.D.	1.0	3.0
Perfluorooctanesulfonamide	N.D.	0.50	2.0
Perfluorooctanesulfonic acid	N.D.	0.50	2.0
Perfluorooctanoic acid	N.D.	0.50	2.0
Perfluoropentanesulfonate	N.D.	0.50	2.0
Perfluoropentanoic acid	N.D.	0.50	2.0
Perfluorotetradecanoic acid	N.D.	0.50	2.0
Perfluorotridecanoic acid	N.D.	0.50	2.0
Perfluoroundecanoic acid	N.D.	0.50	2.0

### LCS/LCSD

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Merrimack Village District  
Reported: 08/15/2019 17:12

Group Number: 2055911

### LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 19212001	Sample number(s): 1112055-1112059								
10:2Fluorotelomersulfonic acid	15.42	13.91			90		49-186		
4:2-Fluorotelomersulfonic acid	14.94	15.48			104		82-152		
6:2-Fluorotelomersulfonic acid	15.17	14.7			97		66-155		
8:2-Fluorotelomersulfonic acid	15.33	20.56			134		66-148		
NEtFOSAA	5.44	5.71			105		55-169		
NEtPFOSA	5.44	5.49			101		70-130		
NEtPFOSAE	5.44	3.24			60*		70-130		
NMeFOSAA	5.44	5.90			108		44-147		
NMePFOSA	5.44	5.11			94		70-130		
NMePFOSAE	5.44	3.72			68*		70-130		
Perfluorobutanesulfonic acid	4.81	5.32			111		73-128		
Perfluorobutanoic acid	5.44	7.31			134		74-142		
Perfluorodecanesulfonic acid	5.24	6.05			115		60-135		
Perfluorodecanoic acid	5.44	6.42			118		69-148		
Perfluorododecanesulfonic acid	5.26	5.54			105		70-130		
Perfluorododecanoic acid	5.44	5.84			107		75-136		
Perfluoroheptanesulfonic acid	5.18	6.04			117		64-135		
Perfluoroheptanoic acid	5.44	6.45			119		76-140		
Perfluorohexadecanoic acid	5.44	5.96			110		21-151		
Perfluorohexanesulfonic acid	5.14	5.37			104		71-131		
Perfluorohexanoic acid	5.44	6.79			125		75-135		
Perfluorononanesulfonic acid	5.22	5.71			109		66-133		
Perfluorononanoic acid	5.44	6.46			119		72-148		
Perfluorooctadecanoic acid	5.44	6.10			112		70-130		
Perfluorooctanesulfonamide	5.44	4.06			75		65-164		
Perfluorooctanesulfonic acid	5.20	5.86			113		67-138		
Perfluorooctanoic acid	5.44	6.24			115		72-138		
Perfluoropentanesulfonate	5.10	5.79			113		76-127		
Perfluoropentanoic acid	5.44	6.95			128		74-134		
Perfluorotetradecanoic acid	5.44	6.32			116		74-135		
Perfluorotridecanoic acid	5.44	5.81			107		61-145		
Perfluoroundecanoic acid	5.44	6.76			124		75-146		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Merrimack Village District  
Reported: 08/15/2019 17:12

Group Number: 2055911

### Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 32 PFAS  
Batch number: 19212001

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
1112055	83	91	96	104	81	75
1112056	82	97	101	121	74	59
1112057	77	90	96	109	68	55
1112058	81	95	104	115	75	56
1112059	75	88	96	100	65	56
Blank	69	63	56	96	66	55
LCS	82	77	68	129	84	75

Limits: 33-123 31-157 26-148 21-182 35-138 34-126

	13C4-PFHpA	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA
1112055	67	109	86	85	95	89
1112056	50	109	83	81	85	82
1112057	46	107	80	78	86	77
1112058	52	107	83	80	93	78
1112059	46	105	72	70	91	69
Blank	67	103	71	68	77	67
LCS	86	126	84	78	88	82

Limits: 35-126 32-170 48-122 50-121 41-144 47-125

	13C2-8:2-FTS	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA
1112055	126	80	87	87	81	73
1112056	115	72	71	83	57	33
1112057	94	78	70	90	63	38
1112058	103	80	82	82	72	43
1112059	100	66	66	68	67	61
Blank	97	58	63	51	51	34
LCS	109	75	83	88	86	74

Limits: 27-164 30-127 30-128 30-142 39-130 26-119

	13C8-PFOSA	d7-NMePFOSAE	d3-NMePFOSA	d9-NEIPFOSAE	d5-NEIPFOSA
1112055	89	66	27	65	26
1112056	75	52	15	51	18
1112057	43	9*	2*	10	3*
1112058	30	5*	1*	7*	2*
1112059	66	54	29	54	29
Blank	49	37	24	35	24
LCS	78	74	34	73	34

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Merrimack Village District  
Reported: 08/15/2019 17:12

Group Number: 2055911

### Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 32 PFAS  
Batch number: 19212001

Limits:	11-127	10-128	10-104	10-121	10-106
---------	--------	--------	--------	--------	--------

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

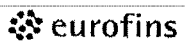
(2) The unspiked result was more than four times the spike added.



38083 2055911

1112055-59

# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 38083 Group # 2055911

Sample # 1112055-59

Client: <u>Merrimack Village District</u>		Matrix		Analyses Requested								For Lab Use Only																	
Project Name#: <u>PFC Investigation</u>		Site ID #:		Preservation and Filtration Codes								SF #: _____																	
Project Manager: <u>Jill Lavoie</u>		P.O. #:		<table border="1"> <tr> <td colspan="8">32 Compounds</td> </tr> <tr> <td colspan="8">PFA5 by isotope dilution</td> </tr> </table>								32 Compounds								PFA5 by isotope dilution								SCR #: _____	
32 Compounds																													
PFA5 by isotope dilution																													
Sampler: <u>Ronald Miner</u>		PWSID #: <u>1531010</u>										Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>		Potable <input type="checkbox"/> Ground <input type="checkbox"/>		Surface <input type="checkbox"/>		Preservation Codes H = HCl                      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> F = Field Filtered        O = Other											
Phone #: <u>(603) 424-9241 x103</u>		Quote #:										Water <input checked="" type="checkbox"/>		NPDES <input type="checkbox"/>		Other: _____		Remarks											
State where samples were collected: <u>NH</u>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Composite		Total # of Containers																							
Sample Identification		Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers																				
<u>MVD-2 (T) / 1531010-008</u>		<u>7/25/19</u>	<u>10:36</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>																			
<u>MVD-3 (R) / 1531010-003</u>		<u>7/25/19</u>	<u>12:45</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>																			
<u>MVD-7 (R) / 1531010-007</u>		<u>7/25/19</u>	<u>12:18</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>																			
<u>MVD-8 (R) / 1531010-009</u>		<u>7/25/19</u>	<u>12:22</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>																			
<u>MVD-TP / 1531010-508</u>		<u>7/25/19</u>	<u>12:26</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>																			
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Relinquished by: <u>Ronald Miner</u>		Date	Time	Received by:		Date	Time																		
(Rush TAT is subject to laboratory approval and surcharges.)						<u>7/25</u>	<u>15:45</u>																						
Date results are needed:				Relinquished by:		Date	Time	Received by:		Date	Time																		
Rush results requested by (please check): E-Mail <input type="checkbox"/> Phone <input type="checkbox"/>																													
E-mail Address:				Relinquished by:		Date	Time	Received by:		Date	Time																		
Phone:																													
Data Package Options (please check if required)				Relinquished by:		Date	Time	Received by:		Date	Time																		
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>																										
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>																										
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>																										
NJ DKQP	<input type="checkbox"/>	NYSDEC Category	<input type="checkbox"/> A or <input type="checkbox"/> B	Relinquished by Commercial Carrier:						<u>7-26-19</u>	<u>10:20</u>																		
EDD Required?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, format: _____		UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other _____				Temperature upon receipt <u>1.3</u> °C																					



Client: MERRIMACK VILLAGE DISTRICT

**Delivery and Receipt Information**

Delivery Method: Fed Ex Arrival Timestamp: 07/26/2019 10:20  
 Number of Packages: 1 Number of Projects: 2  
 State/Province of Origin: NH

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	No
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jessenia Colon Martinez (30 856) at 16:07 on 07/26/2019

**Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	1.3	DT	Wet	Y	Bagged	N

**Sample ID Discrepancy Details**

Sample ID on COC	Sample ID on Label	Comments
MVD-2(T)	Well 2(T)	
MVD-3(R)	Well 3(R)	
MVD-7(R)	Well 7(R)	
MVD-8(R)	Well 8(R)	

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.