



ANALYSIS REPORT

Prepared by:

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

Prepared for:

NH Dept of Environmental Svcs
Waste Management Division
29 Hazen Drive
PO Box 95
Concord NH 03302-0095

Report Date: October 04, 2018 14:51

Project: Landfill Leachate - NCES Landfill

Account #: 41625
Group Number: 1990844
State of Sample Origin: NH

Electronic Copy To	NH Dept of Environmental Svcs	Attn: Kala Day
Electronic Copy To	NH Dept of Environmental Svcs	Attn: Carina Pearson
Electronic Copy To	NH Dept of Environmental Svcs	Attn: Brandon Kernen
Electronic Copy To	NH Dept of Environmental Svcs	Attn: LeaAnne Atwell
Electronic Copy To	NH Dept of Environmental Svcs	Attn: Derek Bennett

Respectfully Submitted,



Lyssa M. Longenecker
Specialist

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To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. 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>
SWMBLS-7A Grab Potable Water	09/20/2018 11:15	9819228
SWMBLS-7A Duplicate Grab Potable Water	09/20/2018 11:15	9819229

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

Sample Description: SWMBLS-7A Grab Potable Water
Landfill Leachate - NCES Landfill
Bethlehem, NH

NH Dept of Environmental Svcs
ELLE Sample #: PW 9819228
ELLE Group #: 1990844
Matrix: Potable Water

Project Name: Landfill Leachate - NCES Landfill

Submittal Date/Time: 09/25/2018 10:30

Collection Date/Time: 09/20/2018 11:15

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	10:2-fluorotelomersulfonate	120226-60-0	N.D.	50	150	10
14473	4:2 fluorotelomersulfonate	757124-72-4	N.D.	50	150	10
14473	6:2 fluorotelomersulfonate	27619-97-2	590	50	100	10
14473	8:2 fluorotelomersulfonate	39108-34-4	N.D.	100	300	10
14473	NEtFOSAA	2991-50-6	180	50	150	10
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMeFOSAA	2355-31-9	440	50	150	10
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	Perfluorobutanesulfonate	375-73-5	1,700	15	50	10
14473	Perfluorobutanoic acid	375-22-4	200 J	100	300	10
14473	Perfluorodecanesulfonate	335-77-3	N.D.	30	100	10
14473	Perfluorodecanoic acid	335-76-2	58 J	45	100	10
14473	Perfluorododecanesulfonate	79780-39-5	N.D.	15	50	10
14473	Perfluorododecanoic acid	307-55-1	N.D.	25	100	10
14473	Perfluoroheptanesulfonate	375-92-8	N.D.	20	100	10
14473	Perfluoroheptanoic acid	375-85-9	730	20	50	10
14473	Perfluorohexadecanoic acid	67905-19-5	N.D.	15	50	10
14473	Perfluorohexanesulfonate	355-46-4	670	20	100	10
14473	Perfluorohexanoic acid	307-24-4	2,500	20	100	10
14473	Perfluorononanesulfonate	68259-12-1	N.D.	30	100	10
14473	Perfluorononanoic acid	375-95-1	100	20	100	10
14473	Perfluorooctadecanoic acid	16517-11-6	N.D.	25	100	10
14473	Perfluoro-octanesulfonate	1763-23-1	330	20	100	10
14473	Perfluorooctanoic acid	335-67-1	2,400	15	50	10
14473	Perfluoropentanesulfonate	2706-91-4	53 J	20	100	10
14473	Perfluoropentanoic acid	2706-90-3	660	100	300	10
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	15	50	10
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	20	50	10
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	20	100	10

Reporting limits were raised due to interference from the sample matrix.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	PFAS in Leachate (27cmpd)	EPA 537 Version 1.1 Modified	1	18269002	09/28/2018 02:00	Marissa C Drexinger	10
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	18269002	09/26/2018 07:45	Courtney J Fatta	1

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

Sample Description: SWMBLS-7A Duplicate Grab Potable Water
Landfill Leachate - NCES Landfill
Bethlehem, NH

NH Dept of Environmental Svcs
ELLE Sample #: PW 9819229
ELLE Group #: 1990844
Matrix: Potable Water

Project Name: Landfill Leachate - NCES Landfill

Submittal Date/Time: 09/25/2018 10:30

Collection Date/Time: 09/20/2018 11:15

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	10:2-fluorotelomersulfonate	120226-60-0	N.D.	49	150	10
14473	4:2 fluorotelomersulfonate	757124-72-4	N.D.	49	150	10
14473	6:2 fluorotelomersulfonate	27619-97-2	610	49	98	10
14473	8:2 fluorotelomersulfonate	39108-34-4	N.D.	98	300	10
14473	NEtFOSAA	2991-50-6	210	49	150	10
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14473	NMeFOSAA	2355-31-9	430	49	150	10
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14473	Perfluorobutanesulfonate	375-73-5	1,700	15	49	10
14473	Perfluorobutanoic acid	375-22-4	200 J	98	300	10
14473	Perfluorodecanesulfonate	335-77-3	N.D.	30	98	10
14473	Perfluorodecanoic acid	335-76-2	56 J	44	98	10
14473	Perfluorododecanesulfonate	79780-39-5	N.D.	15	49	10
14473	Perfluorododecanoic acid	307-55-1	N.D.	25	98	10
14473	Perfluoroheptanesulfonate	375-92-8	N.D.	20	98	10
14473	Perfluoroheptanoic acid	375-85-9	760	20	49	10
14473	Perfluorohexadecanoic acid	67905-19-5	N.D.	15	49	10
14473	Perfluorohexanesulfonate	355-46-4	760	20	98	10
14473	Perfluorohexanoic acid	307-24-4	2,500	20	98	10
14473	Perfluorononanesulfonate	68259-12-1	N.D.	30	98	10
14473	Perfluorononanoic acid	375-95-1	100	20	98	10
14473	Perfluorooctadecanoic acid	16517-11-6	N.D.	25	98	10
14473	Perfluoro-octanesulfonate	1763-23-1	320	20	98	10
14473	Perfluorooctanoic acid	335-67-1	2,400	15	49	10
14473	Perfluoropentanesulfonate	2706-91-4	47 J	20	98	10
14473	Perfluoropentanoic acid	2706-90-3	700	98	300	10
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	15	49	10
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	20	49	10
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	20	98	10

Reporting limits were raised due to interference from the sample matrix.

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Quality Control Summary

Client Name: NH Dept of Environmental Svcs
Reported: 10/04/2018 14:51

Group Number: 1990844

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 ng/l	MDL** ng/l	LOQ ng/l
Batch number: 18269002	Sample number(s): 9819228-9819229		
10:2-fluorotelomersulfonate	N.D.	1.0	3.0
4:2 fluorotelomersulfonate	N.D.	1.0	3.0
6:2 fluorotelomersulfonate	N.D.	1.0	2.0
8:2 fluorotelomersulfonate	N.D.	2.0	6.0
NETFOSAA	N.D.	1.0	3.0
NMeFOSAA	N.D.	1.0	3.0
Perfluorobutanesulfonate	N.D.	0.30	1.0
Perfluorobutanoic acid	N.D.	2.0	6.0
Perfluorodecanesulfonate	N.D.	0.60	2.0
Perfluorodecanoic acid	N.D.	0.90	2.0
Perfluorododecanesulfonate	N.D.	0.30	1.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanesulfonate	N.D.	0.40	2.0
Perfluoroheptanoic acid	N.D.	0.40	1.0
Perfluorohexadecanoic acid	N.D.	0.30	1.0
Perfluorohexanesulfonate	N.D.	0.40	2.0
Perfluorohexanoic acid	N.D.	0.40	2.0
Perfluorononanesulfonate	N.D.	0.60	2.0
Perfluorononanoic acid	N.D.	0.40	2.0
Perfluorooctadecanoic acid	N.D.	0.50	2.0
Perfluoro-octanesulfonate	N.D.	0.40	2.0
Perfluorooctanoic acid	N.D.	0.30	1.0
Perfluoropentanesulfonate	N.D.	0.40	2.0
Perfluoropentanoic acid	N.D.	2.0	6.0
Perfluorotetradecanoic acid	N.D.	0.30	1.0
Perfluorotridecanoic acid	N.D.	0.40	1.0
Perfluoroundecanoic acid	N.D.	0.40	2.0

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: 18269002	Sample number(s): 9819228-9819229								
10:2-fluorotelomersulfonate	15.42	14.67			95		49-186		
4:2 fluorotelomersulfonate	14.94	18.59			124		82-152		

*- 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: NH Dept of Environmental Svcs
Reported: 10/04/2018 14:51

Group Number: 1990844

LCS/LCSD (continued)

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
6:2 fluorotelomersulfonate	15.17	21.05			139		66-155		
8:2 fluorotelomersulfonate	15.33	14.93			97		66-148		
NEtFOSAA	5.44	4.78			88		55-169		
NMeFOSAA	5.44	5.54			102		62-167		
Perfluorobutanesulfonate	4.81	5.41			113		73-128		
Perfluorobutanoic acid	5.44	6.48			119		74-142		
Perfluorodecanesulfonate	5.24	5.15			98		60-135		
Perfluorodecanoic acid	5.44	6.15			113		69-148		
Perfluorododecanesulfonate	5.26	4.90			93		70-130		
Perfluorododecanoic acid	5.44	6.19			114		75-136		
Perfluoroheptanesulfonate	5.18	5.90			114		64-135		
Perfluoroheptanoic acid	5.44	5.68			104		76-140		
Perfluorohexadecanoic acid	5.44	6.20			114		21-151		
Perfluorohexanesulfonate	5.14	5.77			112		71-131		
Perfluorohexanoic acid	5.44	6.41			118		75-135		
Perfluorononanesulfonate	5.22	5.60			107		66-133		
Perfluorononanoic acid	5.44	6.42			118		72-148		
Perfluorooctadecanoic acid	5.44	5.72			105		70-130		
Perfluoro-octanesulfonate	5.20	5.83			112		67-138		
Perfluorooctanoic acid	5.44	6.55			120		72-138		
Perfluoropentanesulfonate	5.10	5.75			113		76-127		
Perfluoropentanoic acid	5.44	6.14			113		74-134		
Perfluorotetradecanoic acid	5.44	6.34			116		74-135		
Perfluorotridecanoic acid	5.44	5.85			108		61-145		
Perfluoroundecanoic acid	5.44	6.05			111		75-146		

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: PFAS in Leachate (27cmpd)
Batch number: 18269002

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
9819228	69	67	76	96	62	69
9819229	73	67	85	102	67	73
Blank	85	85	80	80	91	85
LCS	94	96	90	82	92	88
Limits:	33-123	31-157	26-148	21-182	35-138	34-126

*- 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: NH Dept of Environmental Svcs
Reported: 10/04/2018 14:51

Group Number: 1990844

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: PFAS in Leachate (27cmpd)

Batch number: 18269002

	13C4-PFHpA	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA
9819228	76	102	66	78	100	75
9819229	88	111	74	87	107	74
Blank	87	88	87	86	93	87
LCS	94	92	94	96	98	89
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
9819228	80	61	75	65	67	58
9819229	80	69	76	71	69	65
Blank	79	85	91	80	91	83
LCS	89	77	86	85	88	75
Limits:	27-164	30-127	30-128	30-142	39-130	26-119

*- Outside of specification

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(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.

8119 1518 5546

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 41625 Group # 1990844 Sample # 9819228-29

Client: NH Department of Environmental Services				Matrix <input type="checkbox"/> Tissue <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Other: <u>Leachate</u>		Analyses Requested						For Lab Use Only	
Project Name/#: <u>Landfill Leachate</u>		Site ID #: _____				Preservation Codes						SF #: _____	
Project Manager: <u>Keith DuBois</u>		P.O. #: _____		O						SCR #: _____			
Sampler: <u>Don Watson</u>		Bill To: <u>NHDES Acct 5392</u>								Preservation Codes		H = HCl T = Thiosulfate	
Phone #: <u>(603) 271-2938</u>		Quote #: <u>218456 REV1</u>		PFCs Isotope Dilution-27 Compounds						N = HNO ₃ B = NaOH			
Town where samples collected: <u>Bethlehem</u>										Soil <input type="checkbox"/> Water <input type="checkbox"/> Other: <u>Leachate</u>		S = H ₂ SO ₄ P = H ₃ PO ₄	
State where samples were collected: <u>NH</u> For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				Total # of Containers		Remarks							
Sample Identification <u>NCES Landfill</u>		Collection		Composite								O = Other TRIZMA	
		Date	Time	Grab									
<u>SWMBLS-7A</u>		<u>9/18/18</u>	<u>1115</u>	<u>X</u>				<u>X</u>					
<u>SWMBLS-7A duplicate</u>		<u>9/18/18</u>	<u>1115</u>	<u>X</u>				<u>X</u>					
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Relinquished by: <u>Don Watson</u>		Date/Time: <u>9/18/18 1415</u>	Temp °C: <u>9.4</u>	Received by: <u>Cold Storage</u>		Date: <u>9/18/18</u>	Time: <u>1415</u>		
Date results are needed: <u>Per Contract</u>				Relinquished by: <u>[Signature]</u>		Date/Time: <u>9/24/18 1215</u>	Temp °C: <u>4.3</u>	Received by: <u>Shipping Codes</u>		Date: <u>9/24/18</u>	Time: <u>1215</u>		
Rush results requested by (please check): E-Mail _____ Phone _____				Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: _____	Time: _____		
E-mail Address: _____				Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: _____	Time: _____		
Phone: _____				Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: _____	Time: _____		
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"/>				Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: <u>9/25/18</u>	Time: <u>1030</u>		
Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/>				Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: _____	Time: _____		
Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/>				Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: _____	Time: _____		
NJ DKQP _____ NYSDEC Category _____ A or B _____				Relinquished by Commercial Carrier: _____		Temperature upon receipt <u>D.A.</u> °C							
EDD Required? Yes <input checked="" type="checkbox"/> No _____ If yes, format: <u>Per contract</u>				UPS _____ FedEx <input checked="" type="checkbox"/> Other _____									



Client: NH Department of Environmental Services

Landfill Leachate

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>09/25/2018 10:30</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>NH</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Leah Foreman (12 616) at 14:02 on 09/25/2018

Samples Chilled Details: Landfill Leachate

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	32170023	0.4	IR	Wet	Y	Loose	N

Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	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.		
ppb	parts per billion		
Dry weight basis	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.