

**DES Waste Management Division  
29 Hazen Drive; PO Box 95  
Concord, NH 03302-0095**

**April 2017 Groundwater Monitoring Data  
Submittal: PFAS Results**

**Durham Landfill  
Durham Point Road  
Durham, NH 03824  
NHDES Site #: 199006011  
Project Type: Existing Landfill or Landfill  
Closure  
Project Number: 0002115**

Prepared For:  
Town of Durham  
100 Stone Quarry Drive  
Durham, NH 03824  
Phone Number (603) 868-5578  
RP Contact Name: Ms. April Talon, P.E.  
RP Contact Email: atalon@ci.durham.nh.us



Prepared By:  
Stantec Consulting Services Inc.  
5 Dartmouth Drive, Suite 200  
Auburn, NH 03032  
Phone Number: (603) 669-8672  
Contact Name: Mr. Donald Moore  
Contact Email: Donald.moore2@stantec.com

Date of Report: October 10, 2018

# Groundwater Monitoring Report Cover Sheet

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Site Name: Durham Landfill

Town: Durham

Permit #: GWP 199006011-D-004

## **Type of Submittal** (Check all that apply)

Periodic Summary Report (year) : 2017

Data Submittal (month and year per Condition #7 of Permit): April 2017

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Check each box where the answer to any of the following questions is "YES"

## **Sampling Results**

During the most recent monitoring event, were any new compounds detected at any sampling point?

Well/Compound:

MW-1U/PFBS, PFHPA, PFHXS, PFHXA, PFPEA, PFOS, PFOA;

MW-1L/PFBS, PFHXS, PFHXA, PFPEA, PFOA;

MW-2/PFHPA, PFHXS, PFHXA, PFPEA, PFOS, PFOA;

MW-3U/PFBS, PFHPA, PFHXS, PFHXA, PFPEA, PFOS, PFOA;

MW-3L/ PFBS, PFHPA, PFHXS, PFHXA, PFPEA, PFOS, PFOA;

W-1/ PFBS, PFBA, PFHPA, PFHXS, PFHXA, PFPEA, PFOS, PFOA;

Are there any detections of contamination in drinking water that is untreated prior to use?

Well/Compound:

Do compounds detected exceed AGQS?

Was free product detected for the first time in any monitoring point?

Surface Water (*visible sheen*)

Groundwater (*1/8" or greater thickness*)

Location/Thickness:

## **Contaminant Trends**

Do sampling results show an increasing concentration trend in any source area monitoring well?

Well/Compound:

Do sampling results indicate an AGQS violation in any of the GMZ boundary wells?

Well/Compound:

## **Recommendations**

Does the report include any recommendations requiring DES action? (*Do not check this box if the only recommendation is to continue with existing permit conditions.*)

This form is to be completed for groundwater monitoring data submittals and periodic summary reports submitted to the New Hampshire Department of Environmental Services Waste Management Division.



**Stantec Consulting Services Inc.**  
5 Dartmouth Drive, Suite 200, Auburn, NH 03032  
Tel: (603) 669-8672, Fax: (603) 669-7636

October 10, 2018  
File 191710274

**Attention: Groundwater Management Permits Coordinator**

Waste Management Division  
New Hampshire Department of Environmental Services  
29 Hazen Drive, PO. Box 95  
Concord, NH 03302-0095

**RE: April 2017 Groundwater Monitoring Data Submittal: PFAS Results  
Durham Municipal Landfill, Durham Point Road, Durham, NH  
NHDES No. 199006011, Project #2115**

Dear Sir or Madam:

Stantec Consulting Services (Stantec) is pleased to submit, on behalf of the Town of Durham, the results of the water quality sampling conducted at the Durham Municipal Landfill on April 27, 2017. The site location is shown on Figure 1 (attached). Groundwater samples were collected in accordance with the New Hampshire Department of Environmental Services (NHDES) letter, dated November 22, 2016, which requested Responsible Parties (RPs) with landfills, hazardous substance release sites, fire training areas, and lagoons to sample for per- and polyfluoroalkyl substances (PFAS), in addition to their list of Groundwater Management Permit (GMP) parameters, as an initial screening for these chemicals.

Results from the GMP (No GWP-199006011-D-004) required April 2017 sampling event were submitted to NHDES separately in Stantec's report entitled April 2017 Water Quality Summary and 2017 Biennial Water Quality Summary dated August 24, 2017.

Stantec collected samples for PFAS from five downgradient wells (MW-1U, MW-1L, MW-2, MW-3U, MW-3L) and the on-site potable well (W-1) in accordance with the NHDES Standard Operating Procedure (SOP) #HWRB-21. Locations of the sampling points are shown on the attached Figure 2. For quality assurance/quality control (QA/QC) purposes, a field blank was also collected and analyzed for PFAS. The PFAS samples were analyzed by modified EPA Method 537 (isotope dilution method). The PFAS isomers reported include the list of nine compounds recommended by the NHDES as the minimum analytes for PFAS investigations<sup>1</sup>.

The PFAS samples were placed in an ice chest (separate from the GMP samples) to maintain a temperature of 4°C and were transported to Eurofins Spectrum Analytical, Inc. of Agawam, Massachusetts, a State of New Hampshire-certified laboratory for analysis. Chain of custody

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<sup>1</sup> List of PFAS isomers analyzed included perfluorononanoic acid (PFNA), perfluorooctanoic acid (PFOA), perfluoroheptanoic acid (PFHPA), perfluorohexanoic acid (PFHXA), perfluoropentanoic acid (PFPEA), perfluorobutanoic acid (PFBA), perfluorooctanesulfonic acid (PFOS), perfluorohexanesulfonic acid (PFHXS), and perfluorobutanesulfonic acid (PFBS)



protocols were maintained, and copies of these forms are provided in the laboratory report attached to this letter.

### **April 2017 PFAS Results**

Laboratory results for PFAS are presented in Table 1 and are summarized below.

- At MW-1U, concentrations of seven of the nine isomers were reported above laboratory reporting limits. The level of perfluoro-octanesulfonic acid (PFOS) was reported at 13 nanograms per liter (ng/L) and perfluorooctanoic acid (PFOA) was reported at 5 ng/L. Both concentrations are below their applicable AGQS of 70 ng/L. The sum, or total of PFOS + PFOA (18 ng/L) was also below the AGQS of 70 ng/L for the sum of these two isomers. The other detected isomers do not have related AGQS.
- At MW-1U, concentrations of five of the nine isomers were reported above laboratory reporting limits. PFOS was not detected above its laboratory reporting limit; PFOA was detected below its AGQS at 3 ng/L; and the total of PFOS + PFOA was detected below AGQS at 3 ng/L.
- At MW-2, concentrations of six of the nine isomers were reported above laboratory reporting limits. PFOS was detected below its AGQS at 12 ng/L; PFOA was detected below its AGQS at 5 ng/L; and the total of PFOS + PFOA was detected below AGQS at 17 ng/L.
- At MW-3U, concentrations of seven of the nine isomers were reported above laboratory reporting limits. PFOS and PFOA were detected below their AGQS at 22 ng/L and 24 ng/L, respectively. The total of PFOS + PFOA was also detected below its AGQS at 46 ng/L.
- At MW-3L, concentrations of seven of the nine isomers were reported above laboratory reporting limits. PFOS and PFOA were detected below AGQS at 12 ng/L and 13 ng/L, respectively. The total of PFOS + PFOA was detected below its AGQS at 25 ng/L.
- At W-1, concentrations of eight of the nine isomers were reported above laboratory reporting limits. PFOS and PFOA were detected below their AGQS at 21 ng/L and 16 ng/L, respectively. The total of PFOS + PFOA was detected below its AGQS at 37 ng/L.
- No PFAS isomers were detected in the Field Blank.



October 10, 2018  
Page 3 of 3

Although detectable levels of PFAS were reported in the sampled wells, it is recommended that no further testing be conducted due to the concentrations being below AGQS.

Sincerely,

**STANTEC CONSULTING SERVICES INC.**

Donald F. Moore, P.G.  
Associate/Hydrogeologist  
Phone: (603) 206-7561  
Donald.moore2@stantec.com

Attachments: Figures 1 and 2  
Table 1  
Laboratory Data Report April 2017 PFAS Sampling Event

Cc: April Talon, P.E., Town of Durham



MAP SOURCE:

TOPOZONE.COM

USGS NEWMARKET [NH] QUAD 1990



2000 0 2000



Scale in feet

## Stantec Consulting Services, Inc.



**Stantec**

STANTEC LOCATION:  
AUBURN, NEW HAMPSHIRE

DATE PREPARED: 6-28-17	DESIGNED BY: DFM	DRAWN BY: JJW	CHECKED BY: DFM	REVIEWED BY: DFM
REVISION DATE:	REVISION NO:	DRAWN BY:	CHECKED BY:	REVIEWED BY:

PROJECT NAME/FILE NAME:  
DURHAM/SITE

PROJECT NUMBER/PHASE:  
191710274

SCALE:  
1:24000

DRAWING TITLE:

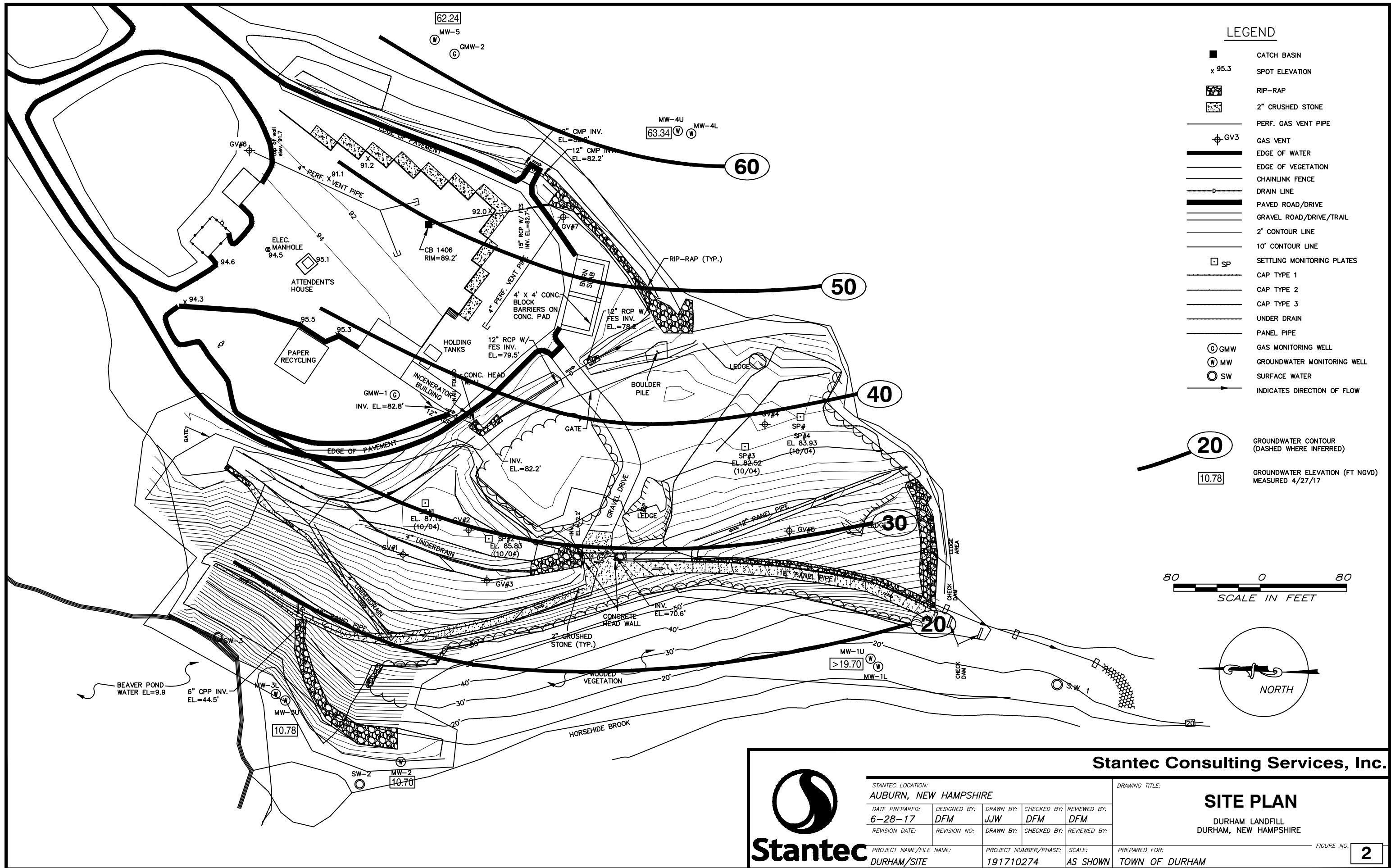
### SITE LOCATION PLAN

DURHAM LANDFILL  
DURHAM, NEW HAMPSHIRE

PREPARED FOR:  
TOWN OF DURHAM

FIGURE NO.

**1**



**TABLE 1**  
 Summary of Groundwater Analytical Results: PFAS Data  
 Closed Durham Municipal landfill  
 April 27, 2017

Analyte/Method		Units	NHDES AGQS	Sample ID						
				MW-1U	MW-1L	MW-2	MW-3U	MW-3L	W-1	Field Blank
Date				04/17/17	04/17/17	04/17/17	04/17/17	04/17/17	04/17/17	04/17/17
<b>PFAS By Isotope Dilution (MWs/SWs)</b>										
<b>Cas No</b>										
375-73.5	Perfluorobutanesulfonate (PFBS)	ng/L	NS	4	7	< 3	7	7	10	< 3
375-22-4	Perfluorobutanoic acid (PFBA)	ng/L	NS	< 10	< 10	< 10	< 10	< 10	12	< 10
375-85-9	Perfluoroheptanoic acid (PFHPA)	ng/L	NS	4	< 2	3	10	7	12	< 2
375-46-4	Perfluorohexanesulfonate (PFHXS)	ng/L	NS	14	16	7	20	18	20	< 3
307-24.4	Perfluorohexanoic acid (PFHXA)	ng/L	NS	5	3	4	16	14	22	< 2
375-95-1	Perfluoronanoic acid (PFNA)	ng/L	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2706-90-3	Perfluoropentanoic acid (PFPEA)	ng/L	NS	8	4	6	17	15	22	< 2
1763-23-1	Perfluoro-octanesulfonic acid (PFOS)	ng/L	70	13	< 6	12	22	12	21	< 6
335-67-1	Perfluorooctanoic acid (PFOA)	ng/L	70	5	3	5	24	13	16	< 2
	Total PFOS + PFOA	ng/L	70	18	3	17	46	25	37	0
	Total PFAS	ng/L	NS	53	33	37	116	86	135	0

**Notes:**

PFAS = Per- and Polyfluoroalkyl Substances

ng/L = Nanograms per liter (parts per trillion)

NS = No standard

AGQS = Ambient Groundwater Quality Standards, Env-Or 603.03 (eff. 6/1/15)

**Bold** = Concentration exceeds NHDES AGQS or WQC

Checked by: KMC 06-29-2017



## Laboratory Report SC34056

Stantec Consulting Services  
5 Dartmouth Drive, Suite 101  
Auburn, NH 03032  
Attn: Don Moore

Project: Durham Landfill - Durham, NH  
Project #: 191710274

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.  
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110  
Connecticut # PH-0777  
Florida # E87936  
Maine # MA138  
New Hampshire # 2972/2538  
New Jersey # MA011  
New York # 11393  
Pennsylvania # 68-04426/68-02924  
Rhode Island # LAO00348  
USDA # P330-15-00375  
Vermont # VT-11393



Authorized by:

Christina White  
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 16 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

*Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at [www.spectrum-analytical.com](http://www.spectrum-analytical.com) for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).*

*Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.*

## Sample Summary

**Work Order:** SC34056  
**Project:** Durham Landfill - Durham, NH  
**Project Number:** 191710274

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC34056-01	MW-1U	Ground Water	27-Apr-17 10:50	28-Apr-17 18:25
SC34056-02	MW-1L	Ground Water	27-Apr-17 11:15	28-Apr-17 18:25
SC34056-03	MW-2	Ground Water	27-Apr-17 12:20	28-Apr-17 18:25
SC34056-04	MW-3U	Ground Water	27-Apr-17 13:15	28-Apr-17 18:25
SC34056-05	MW-3L	Ground Water	27-Apr-17 13:45	28-Apr-17 18:25
SC34056-06	W-1	Ground Water	27-Apr-17 14:45	28-Apr-17 18:25
SC34056-07	Field-Blank	Ground Water	27-Apr-17 11:25	28-Apr-17 18:25

**CASE NARRATIVE:**

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 3.8 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

**May 30, 2017 Report Revision Case Narrartive:**

This report has been revised to include the analyte list as requested on the chain of custody.

**There is no relevant protocol-specific QC and/or performance standards non-conformances to report.**

## Sample Acceptance Check Form

Client: Stantec Consulting Services - Auburn, NH  
 Project: Durham Landfill - Durham, NH / 191710274  
 Work Order: SC34056  
 Sample(s) received on: 4/28/2017

*The following outlines the condition of samples for the attached Chain of Custody upon receipt.*

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Summary of Hits**

**Lab ID:** SC34056-01

**Client ID:** MW-1U

<b>Parameter</b>	<b>Result</b>	<b>Flag</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analytical Method</b>
Perfluorobutanesulfonate	4		3	ng/l	EPA 537 modified
Perfluoroheptanoic acid	4		2	ng/l	EPA 537 modified
Perfluorohexanesulfonate	14		3	ng/l	EPA 537 modified
Perfluorohexanoic acid	5		2	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	13		6	ng/l	EPA 537 modified
Perfluorooctanoic acid	5		2	ng/l	EPA 537 modified
Perfluoropentanoic Acid	8		2	ng/l	EPA 537 modified

**Lab ID:** SC34056-02

**Client ID:** MW-1L

<b>Parameter</b>	<b>Result</b>	<b>Flag</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analytical Method</b>
Perfluorobutanesulfonate	7		3	ng/l	EPA 537 modified
Perfluorohexanesulfonate	16		3	ng/l	EPA 537 modified
Perfluorohexanoic acid	3		2	ng/l	EPA 537 modified
Perfluorooctanoic acid	3		2	ng/l	EPA 537 modified
Perfluoropentanoic Acid	4		2	ng/l	EPA 537 modified

**Lab ID:** SC34056-03

**Client ID:** MW-2

<b>Parameter</b>	<b>Result</b>	<b>Flag</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analytical Method</b>
Perfluoroheptanoic acid	3		2	ng/l	EPA 537 modified
Perfluorohexanesulfonate	7		3	ng/l	EPA 537 modified
Perfluorohexanoic acid	4		2	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	12		6	ng/l	EPA 537 modified
Perfluorooctanoic acid	5		2	ng/l	EPA 537 modified
Perfluoropentanoic Acid	6		2	ng/l	EPA 537 modified

**Lab ID:** SC34056-04

**Client ID:** MW-3U

<b>Parameter</b>	<b>Result</b>	<b>Flag</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analytical Method</b>
Perfluorobutanesulfonate	7		3	ng/l	EPA 537 modified
Perfluoroheptanoic acid	10		2	ng/l	EPA 537 modified
Perfluorohexanesulfonate	20		3	ng/l	EPA 537 modified
Perfluorohexanoic acid	16		2	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	22		6	ng/l	EPA 537 modified
Perfluorooctanoic acid	24		2	ng/l	EPA 537 modified
Perfluoropentanoic Acid	17		2	ng/l	EPA 537 modified

Lab ID: SC34056-05

Client ID: MW-3L

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Perfluorobutanesulfonate	7		3	ng/l	EPA 537 modified
Perfluoroheptanoic acid	7		2	ng/l	EPA 537 modified
Perfluorohexanesulfonate	18		3	ng/l	EPA 537 modified
Perfluorohexanoic acid	14		2	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	12		6	ng/l	EPA 537 modified
Perfluorooctanoic acid	13		2	ng/l	EPA 537 modified
Perfluoropentanoic Acid	15		2	ng/l	EPA 537 modified

Lab ID: SC34056-06

Client ID: W-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Perfluorobutanesulfonate	10		3	ng/l	EPA 537 modified
Perfluorobutanoic Acid	12		10	ng/l	EPA 537 modified
Perfluoroheptanoic acid	12		2	ng/l	EPA 537 modified
Perfluorohexanesulfonate	20		3	ng/l	EPA 537 modified
Perfluorohexanoic acid	22		2	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	21		6	ng/l	EPA 537 modified
Perfluorooctanoic acid	16		2	ng/l	EPA 537 modified
Perfluoropentanoic Acid	22		2	ng/l	EPA 537 modified

*Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.*

Sample Identification

MW-1U  
SC34056-01

Client Project #  
191710274

Matrix  
Ground Water

Collection Date/Time  
27-Apr-17 10:50

Received  
28-Apr-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted Analyses

Subcontracted Analyses

Prepared by method Method

Analysis performed by Eurofins Lancaster Laboratories Environmental - M-PA0

375-73-5	Perfluorobutanesulfonate	4		ng/l	3	0.8	1	EPA 537 modified	08-May-17 13:05	14-May-17 00:57	M-PA0	17128002	
375-22-4	Perfluorobutanoic Acid	< 10		ng/l	10	3	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	4		ng/l	2	0.5	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	14		ng/l	3	1	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	5		ng/l	2	0.6	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	13		ng/l	6	2	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	5		ng/l	2	0.6	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic Acid	8		ng/l	2	0.5	1	"	"	"	"	"	"

Surrogate recoveries:

375-73-5L	13C3-PFBS	89							"	"	"	"	"
355-46-4L	13C3-PFHxS	73							"	"	"	"	"
375-22-4L	13C4-PFBA	73							"	"	"	"	"
375-85-9L	13C4-PFHpA	76							"	"	"	"	"
307-24-4L	13C5-PFHxA	78							"	"	"	"	"
2706-90-3L	13C5-PFPeA	84							"	"	"	"	"
335-67-1L	13C8-PFOA	76							"	"	"	"	"
1763-23-1L	13C8-PFOS	80							"	"	"	"	"
375-95-1L	13C9-PFNA	83							"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

MW-1L  
SC34056-02

Client Project #  
191710274

Matrix  
Ground Water

Collection Date/Time  
27-Apr-17 11:15

Received  
28-Apr-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted Analyses

Subcontracted Analyses

Prepared by method Method

Analysis performed by Eurofins Lancaster Laboratories Environmental - M-PA0

375-73-5	Perfluorobutanesulfonate	7		ng/l	3	0.8	1	EPA 537 modified	08-May-17 13:05	14-May-17 01:59	M-PA0	17128002	
375-22-4	Perfluorobutanoic Acid	< 10		ng/l	10	3	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	< 2		ng/l	2	0.5	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	16		ng/l	3	1	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	3		ng/l	2	0.6	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	< 6		ng/l	6	2	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	3		ng/l	2	0.6	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic Acid	4		ng/l	2	0.5	1	"	"	"	"	"	"

Surrogate recoveries:

375-73-5L	13C3-PFBS	70							"	"	"	"	"
355-46-4L	13C3-PFHxS	61							"	"	"	"	"
375-22-4L	13C4-PFBA	68							"	"	"	"	"
375-85-9L	13C4-PFHpA	69							"	"	"	"	"
307-24-4L	13C5-PFHxA	65							"	"	"	"	"
2706-90-3L	13C5-PFPeA	70							"	"	"	"	"
335-67-1L	13C8-PFOA	67							"	"	"	"	"
1763-23-1L	13C8-PFOS	70							"	"	"	"	"
375-95-1L	13C9-PFNA	69							"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.



Sample Identification

MW-2	Client Project #	Matrix	Collection Date/Time	Received
SC34056-03	191710274	Ground Water	27-Apr-17 12:20	28-Apr-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted Analyses

Subcontracted Analyses

Prepared by method Method

Analysis performed by Eurofins Lancaster Laboratories Environmental - M-PA0

375-73-5	Perfluorobutanesulfonate	< 3		ng/l	3	0.8	1	EPA 537 modified	08-May-17 13:05	14-May-17 02:19	M-PA0	17128002	
375-22-4	Perfluorobutanoic Acid	< 10		ng/l	10	3	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	3		ng/l	2	0.5	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	7		ng/l	3	1	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	4		ng/l	2	0.6	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	12		ng/l	6	2	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	5		ng/l	2	0.6	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic Acid	6		ng/l	2	0.5	1	"	"	"	"	"	"

Surrogate recoveries:

375-73-5L	13C3-PFBS	75			70-130 %			"	"	"	"	"	"
355-46-4L	13C3-PFHxS	68			70-130 %			"	"	"	"	"	"
375-22-4L	13C4-PFBA	64			70-130 %			"	"	"	"	"	"
375-85-9L	13C4-PFHpA	72			70-130 %			"	"	"	"	"	"
307-24-4L	13C5-PFHxA	68			70-130 %			"	"	"	"	"	"
2706-90-3L	13C5-PFPeA	71			70-130 %			"	"	"	"	"	"
335-67-1L	13C8-PFOA	69			70-130 %			"	"	"	"	"	"
1763-23-1L	13C8-PFOS	64			70-130 %			"	"	"	"	"	"
375-95-1L	13C9-PFNA	72			70-130 %			"	"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

MW-3U  
SC34056-04

Client Project #  
191710274

Matrix  
Ground Water

Collection Date/Time  
27-Apr-17 13:15

Received  
28-Apr-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted Analyses

Subcontracted Analyses

Prepared by method Method

Analysis performed by Eurofins Lancaster Laboratories Environmental - M-PA0

375-73-5	Perfluorobutanesulfonate	7		ng/l	3	0.8	1	EPA 537 modified	08-May-17 13:05	14-May-17 02:40	M-PA0	17128002	
375-22-4	Perfluorobutanoic Acid	< 10		ng/l	10	3	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	10		ng/l	2	0.5	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	20		ng/l	3	1	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	16		ng/l	2	0.6	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	22		ng/l	6	2	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	24		ng/l	2	0.6	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic Acid	17		ng/l	2	0.5	1	"	"	"	"	"	"

Surrogate recoveries:

375-73-5L	13C3-PFBS	84											
355-46-4L	13C3-PFHxS	56											
375-22-4L	13C4-PFBA	63											
375-85-9L	13C4-PFHpA	59											
307-24-4L	13C5-PFHxA	58											
2706-90-3L	13C5-PFPeA	76											
335-67-1L	13C8-PFOA	61											
1763-23-1L	13C8-PFOS	61											
375-95-1L	13C9-PFNA	68											

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Sample Identification

MW-3L  
SC34056-05

Client Project #  
191710274

Matrix  
Ground Water

Collection Date/Time  
27-Apr-17 13:45

Received  
28-Apr-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted Analyses

Subcontracted Analyses

Prepared by method Method

Analysis performed by Eurofins Lancaster Laboratories Environmental - M-PA0

375-73-5	Perfluorobutanesulfonate	7		ng/l	3	0.8	1	EPA 537 modified	08-May-17 13:05	14-May-17 03:00	M-PA0	17128002	
375-22-4	Perfluorobutanoic Acid	< 10		ng/l	10	3	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	7		ng/l	2	0.5	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	18		ng/l	3	1	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	14		ng/l	2	0.6	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	12		ng/l	6	2	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	13		ng/l	2	0.6	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic Acid	15		ng/l	2	0.5	1	"	"	"	"	"	"

Surrogate recoveries:

375-73-5L	13C3-PFBS	90											
355-46-4L	13C3-PFHxS	62											
375-22-4L	13C4-PFBA	66											
375-85-9L	13C4-PFHpA	69											
307-24-4L	13C5-PFHxA	65											
2706-90-3L	13C5-PFPeA	84											
335-67-1L	13C8-PFOA	70											
1763-23-1L	13C8-PFOS	71											
375-95-1L	13C9-PFNA	73											

Sample Identification

<b>W-1</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC34056-06	191710274	Ground Water	27-Apr-17 14:45	28-Apr-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method Method

*Analysis performed by Eurofins Lancaster Laboratories Environmental - M-PA0*

375-73-5	Perfluorobutanesulfonate	10		ng/l	3	0.8	1	EPA 537 modified	08-May-17 13:05	14-May-17 03:21	M-PA0	17128002	
375-22-4	Perfluorobutanoic Acid	12		ng/l	10	3	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	12		ng/l	2	0.5	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	20		ng/l	3	1	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	22		ng/l	2	0.6	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	21		ng/l	6	2	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	16		ng/l	2	0.6	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic Acid	22		ng/l	2	0.5	1	"	"	"	"	"	"

*Surrogate recoveries:*

375-73-5L	13C3-PFBS	100											
355-46-4L	13C3-PFHxS	52											
375-22-4L	13C4-PFBA	59											
375-85-9L	13C4-PFHpA	56											
307-24-4L	13C5-PFHxA	51											
2706-90-3L	13C5-PFPeA	83											
335-67-1L	13C8-PFOA	54											
1763-23-1L	13C8-PFOS	62											
375-95-1L	13C9-PFNA	66											

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Sample Identification

Field-Blank  
SC34056-07

Client Project #  
191710274

Matrix  
Ground Water

Collection Date/Time  
27-Apr-17 11:25

Received  
28-Apr-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted Analyses

Subcontracted Analyses

Prepared by method Method

Analysis performed by Eurofins Lancaster Laboratories Environmental - M-PA0

375-73-5	Perfluorobutanesulfonate	< 3		ng/l	3	0.8	1	EPA 537 modified	08-May-17 13:05	14-May-17 03:41	M-PA0	17128002	
375-22-4	Perfluorobutanoic Acid	< 10		ng/l	10	3	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	< 2		ng/l	2	0.5	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	< 3		ng/l	3	1	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	< 6		ng/l	6	2	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	< 2		ng/l	2	0.6	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic Acid	< 2		ng/l	2	0.5	1	"	"	"	"	"	"

Surrogate recoveries:

375-73-5L	13C3-PFBS	76											
355-46-4L	13C3-PFHxS	65											
375-22-4L	13C4-PFBA	72											
375-85-9L	13C4-PFHpA	70											
307-24-4L	13C5-PFHxA	71											
2706-90-3L	13C5-PFPeA	76											
335-67-1L	13C8-PFOA	70											
1763-23-1L	13C8-PFOS	70											
375-95-1L	13C9-PFNA	86											

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>EPA 537 modified</u></b>										
<b>Batch 17128002 - Method</b>										
<b><u>Blank (BLK1280B)</u></b>										
						<u>Prepared: 08-May-17 Analyzed: 14-May-17</u>				
Perfluorohexanesulfonate	< 3		ng/l	3				-		
Perfluoropentanoic Acid	< 2		ng/l	2				-		
Perfluorooctanoic acid	< 2		ng/l	2				-		
Perfluoro-octanesulfonate	< 6		ng/l	6				-		
Perfluorohexanoic acid	< 2		ng/l	2				-		
Perfluoroheptanoic acid	< 2		ng/l	2				-		
Perfluorobutanoic Acid	< 10		ng/l	10				-		
Perfluorobutanesulfonate	< 3		ng/l	3				-		
Perfluorononanoic acid	< 2		ng/l	2				-		
<hr/>										
Surrogate: 13C4-PFBA	7		ng/l		10		65	70-130		
Surrogate: 13C3-PFBS	7		ng/l		10		67	70-130		
Surrogate: 13C3-PFHxS	6		ng/l		10		62	70-130		
Surrogate: 13C9-PFNA	8		ng/l		10		76	70-130		
Surrogate: 13C4-PFHpA	7		ng/l		10		66	70-130		
Surrogate: 13C5-PFHxA	7		ng/l		10		66	70-130		
Surrogate: 13C5-PFPeA	7		ng/l		10		65	70-130		
Surrogate: 13C8-PFOA	7		ng/l		10		67	70-130		
Surrogate: 13C8-PFOS	7		ng/l		10		69	70-130		
<hr/>										
						<u>Prepared: 08-May-17 Analyzed: 13-May-17</u>				
Perfluorooctanoic acid	<b>210</b>		ng/l	2	200		104	70-130		
Perfluoropentanoic Acid	<b>200</b>		ng/l	2	200		101	70-130		
Perfluorobutanoic Acid	<b>200</b>		ng/l	10	200		100	70-130		
Perfluoroheptanoic acid	<b>200</b>		ng/l	2	200		102	70-130		
Perfluorohexanesulfonate	<b>190</b>		ng/l	3	190		100	70-130		
Perfluorohexanoic acid	<b>200</b>		ng/l	2	200		101	70-130		
Perfluorononanoic acid	<b>200</b>		ng/l	2	200		99	70-130		
Perfluoro-octanesulfonate	<b>190</b>		ng/l	6	190		98	70-130		
Perfluorobutanesulfonate	<b>190</b>		ng/l	3	180		105	70-130		
<hr/>										
Surrogate: 13C5-PFPeA	7		ng/l		10		73	70-130		
Surrogate: 13C3-PFBS	7		ng/l		10		71	70-130		
Surrogate: 13C3-PFHxS	7		ng/l		10		67	70-130		
Surrogate: 13C4-PFBA	7		ng/l		10		68	70-130		
Surrogate: 13C5-PFHxA	7		ng/l		10		68	70-130		
Surrogate: 13C8-PFOA	7		ng/l		10		66	70-130		
Surrogate: 13C8-PFOS	7		ng/l		10		70	70-130		
Surrogate: 13C9-PFNA	7		ng/l		10		71	70-130		
Surrogate: 13C4-PFHpA	7		ng/l		10		66	70-130		
<hr/>										
						<u>Prepared: 08-May-17 Analyzed: 13-May-17</u>				
Perfluorobutanesulfonate	<b>180</b>		ng/l	3	180		100	70-130	5	30
Perfluorobutanoic Acid	<b>200</b>		ng/l	10	200		99	70-130	1	30
Perfluoroheptanoic acid	<b>200</b>		ng/l	2	200		99	70-130	3	30
Perfluorohexanesulfonate	<b>180</b>		ng/l	3	190		96	70-130	5	30
Perfluorohexanoic acid	<b>220</b>		ng/l	2	200		110	70-130	8	30
Perfluorononanoic acid	<b>200</b>		ng/l	2	200		98	70-130	1	30
Perfluoro-octanesulfonate	<b>190</b>		ng/l	6	190		98	70-130	0	30
Perfluorooctanoic acid	<b>180</b>		ng/l	2	200		91	70-130	13	30
Perfluoropentanoic Acid	<b>190</b>		ng/l	2	200		96	70-130	4	30
<hr/>										
Surrogate: 13C8-PFOA	7		ng/l		10		72	70-130		
Surrogate: 13C8-PFOS	8		ng/l		10		80	70-130		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>EPA 537 modified</u></b>										
<b>Batch 17128002 - Method</b>										
<b><u>LCSD (LCS1282Y)</u></b>					<u>Prepared: 08-May-17 Analyzed: 13-May-17</u>					
Surrogate: 13C5-PFPeA	7		ng/l		10		74	70-130		
Surrogate: 13C3-PFBS	7		ng/l		10		75	70-130		
Surrogate: 13C9-PFNA	9		ng/l		10		86	70-130		
Surrogate: 13C4-PFHpA	7		ng/l		10		68	70-130		
Surrogate: 13C4-PFBA	7		ng/l		10		68	70-130		
Surrogate: 13C3-PFHxS	7		ng/l		10		70	70-130		
Surrogate: 13C5-PFHxA	6		ng/l		10		63	70-130		
<b><u>Matrix Spike (P969319R)</u></b>					<u>Prepared: 08-May-17 Analyzed: 13-May-17</u>					
Perfluoropentanoic Acid	<b>230</b>		ng/l	2	200	8	109	70-130		
Perfluorooctanoic acid	<b>220</b>		ng/l	2	200	5	108	70-130		
Perfluoro-octanesulfonate	<b>230</b>		ng/l	6	190	13	114	70-130		
Perfluorononanoic acid	<b>230</b>		ng/l	2	200	0.7	116	70-130		
Perfluorohexanoic acid	<b>240</b>		ng/l	2	200	5	120	70-130		
Perfluorohexanesulfonate	<b>220</b>		ng/l	3	190	14	107	70-130		
Perfluoroheptanoic acid	<b>220</b>		ng/l	2	200	4	107	70-130		
Perfluorobutanoic Acid	<b>220</b>		ng/l	10	200	4	110	70-130		
Perfluorobutanesulfonate	<b>200</b>		ng/l	3	180	4	113	70-130		
Surrogate: 13C5-PFPeA	8		ng/l		10		77	70-130		
Surrogate: 13C9-PFNA	7		ng/l		10		71	70-130		
Surrogate: 13C3-PFBS	8		ng/l		10		84	70-130		
Surrogate: 13C8-PFOA	6		ng/l		10		58	70-130		
Surrogate: 13C5-PFHxA	5		ng/l		10		54	70-130		
Surrogate: 13C4-PFHpA	6		ng/l		10		62	70-130		
Surrogate: 13C4-PFBA	6		ng/l		10		65	70-130		
Surrogate: 13C3-PFHxS	6		ng/l		10		58	70-130		
Surrogate: 13C8-PFOS	7		ng/l		10		66	70-130		

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## Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. #

Group #

Sample #

For Eurofins Lancaster Laboratories Environmental use only

SC34056 6M

COC # 526752

## Client Information

Client:

STANTEC

Acct. #:

Project Name/ #:

DULHAM L.F / 191710234

PWSID #:

Project Manager:

DDN MOORE

P.O. #:

Sampler:

JASON WIKRO

Quote #:

State where samples were collected:

NEW HAMPSHIRE

For Compliance:

Yes

No

## Sample Identification

Collected

Date

Time

Grab

Composite

Soil

Sediment

Tissue

Water Potable

Ground

NPDES

Surface

Other:

Total # of Containers

NHDES (9) PFCS 0

## Analysis Requested

Preservation Codes

FSC: 2057163

SCR#: 2057163

For Lab Use Only

Preservation Codes

H=HCl T=Thiosulfate

N=HNO<sub>3</sub> B=NaOH

S=H<sub>2</sub>SO<sub>4</sub> O=Other

Remarks

(0) TR12WA AC10

XNH AGOSA

Sample ID	Date	Time	Grab	Composite	Soil	Sediment	Tissue	Water Potable	Ground	NPDES	Surface	Other	Total # of Containers
MMW-1U	4-27-17	1050	X					X					2
MMW-1L		1115	X					X					2
MMW-2		1220	X					X					2
MMW-3U		1315	X					X					2
MMW-3L		1345	X					X					2
W-1		1445	X					X					2
Field - Blank	4-27-17	1125	X					X					2

Turnaround Time (TAT) Requested (please circle)

Standard

Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:

E-mail address: DUALO.MOORE@STANTEC.COM

Data Package Options (circle if required)

Type I (EPA Level 3)  
Equivalent/non-CLP  
Type VI (Raw Data Only)

Type III (Reduced non-CLP)  
NJ DKQP  
TX TRRP-13

NYSDEC Category A or B  
MA MCP  
CT RCP

Site-Specific QC (MS/MSD/Dup)? Yes No  
If yes, format: \_\_\_\_\_  
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:  
UPS \_\_\_\_\_ Fedex \_\_\_\_\_ Other \_\_\_\_\_  
Temperature upon receipt \_\_\_\_\_ °C

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time
Edwin Hernandez	4/21/17	1315	[Signature]	4-27-17	0700	[Signature]	4-28-17	1:25
[Signature]			[Signature]	4/28/17	1:25	[Signature]	4/28/17	19:25
[Signature]			[Signature]					

High turbidity  
High turbidity

6M

## Batch Summary

**17128002**

*Subcontracted Analyses*

BLK1280B

LCS1282Q

LCS1282Y

P969319R

SC34056-01 (MW-1U)

SC34056-02 (MW-1L)

SC34056-03 (MW-2)

SC34056-04 (MW-3U)

SC34056-05 (MW-3L)

SC34056-06 (W-1)

SC34056-07 (Field-Blank)